



HYDRAULIC HOSE AND FITTINGS

# HYDRAULIC HOSE, FITTINGS AND EQUIPMENT

one source  
one system  
one solution



**GOOD** **YEAR**<sup>®</sup>  
ENGINEERED PRODUCTS



# Full-line products, full-service growth.

Goodyear Engineered Products offers the resources hydraulic customers need.



1  
one source  
one system  
one solution

From construction and agriculture to manufacturing and transportation, Goodyear Engineered Products offers complete industrial hydraulics hose solutions for your applications. We're your one SOURCE, one SYSTEM, one SOLUTION provider with innovative hydraulic hose and products that meet major global standards.

Goodyear prides itself on being the ultimate solution provider by backing you up 100% with quality service and local support on a global basis. As a single solution supplier for all hydraulic assembly components, including hose, fittings, adapters and the method of assembly. Goodyear has redefined hydraulic assembly.

## HYDRAULIC HOSE ASSEMBLY SYSTEMS THAT PERFORM

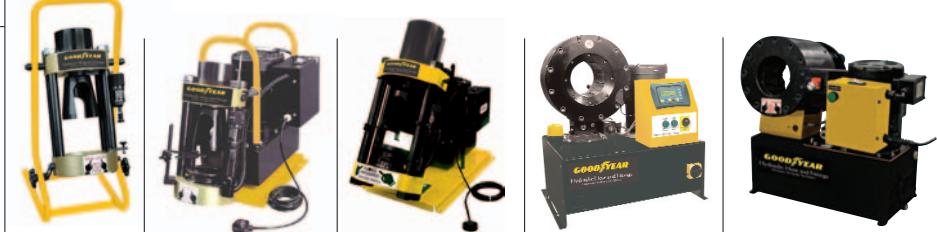
### GOODYEAR HYDRAULIC HOSE AND FITTINGS

One **SOURCE** provides the hose and fittings that meet global performance standards, including SAE, DIN, JIS, USCG and ABS.



### GOODYEAR HYDRAULIC EQUIPMENT

One **SYSTEM** includes a broad selection of hydraulic assembly equipment.



### PERMA-CRIMP™ SYSTEM

One **SOLUTION** that produces a high-quality, reliable hydraulic hose assembly.



## **Service and Support to Back You Up From One Source**

Goodyear Engineered Products is committed to maintaining the highest level of service and support.

- Experienced hydraulic sales specialists and customer service representatives.
- Application engineers for technical assistance.
- Interactive website for the latest product, technical and interchange information.
- OneSource Distribution Network for industrial hose and hydraulics.
- Local support on a global basis to assist in your applications.



# Goodyear Engineered Products Hydraulic Hose

Designers and engineers are discovering new applications for hydraulic power. Whether the application is construction, mining, agriculture, manufacturing or transportation, Goodyear has a hose to meet the diverse needs of our customers, because Goodyear provides hose products that meet all major global hose standards.

Produced to ISO 9001 certification, Goodyear's hydraulic hose undergo state-of-the-art manufacturing processes and meet the applied international standards of SAE J517, EN 853, EN 854, EN 855, EN 856, EN 857, and DIN 20023.

## KEY FEATURES

### Armorcoat™ Hose Cover

- Super tough cover for high abrasion applications.
- Can replace protective sleeves.
- Mine Safety and Health Administration (MSHA) rated.
- CR2SN (SAE 100R2AT/2SN), AR12 (SAE 100R12/EN 856 R12), AR13 (SAE 100R13/EN 856 R13), AR15 (SAE 100R15), AR16SC (SAE 100R16/EN 857 2SC) and AR17 (SAE 100R17) hydraulic applications.



### Arctic™ Low Temperature Hose

- -58° F low temperature service.
- LR2SN (SAE 100R2AT/2SN) high pressure hydraulic applications.



### Low Pressure Hose

- 300 - 1250 psi.
- Textile reinforcement.
- GR6 (SAE 100R6).
- GR4 (SAE 100R4).
- Push-On Hose, Insta-Grip 300™, Ultra-Grip 300™, Insta-GripTC™.



## KEY FEATURES

### Fleet Applications

- GR5 (SAE 100R5).
- HR5 (high temperature service).
- GUT (SAE J1402 Type A1).
- Air Conditioning Hose.



### Desert™ High Temperature Hose

- 275° F high temperature service.
- HR1SN (SAE 100R1AT/1SN), HR2SN (SAE 100R2AT/2SN), CR2SN (SAE 100R2AT/2SN), HR6 (SAE 100R6/EN 854 R6) hydraulic applications, HR6 (SAE 100R6), HR4 (SAE 100R4).



### Teflon Hose

- 500° F high temperature intermittent service.
- Chemical resistance.
- Stainless steel braided cover.
- GR14A (SAE 100R14).



### Non-conductive Hose

- NSFX (Saflex®) medium pressure hydraulic applications.
- Thermoplastic Hose including NR7 (SAE 100R7), NR8 (SAE 100R8), BR7 (SAE 100R7).



### High Pressure Hose

- 4 and 6-spiral hose.
- Armorcoat™ abrasion cover available.
- Very high pressure and high pulsating applications up to 6000 psi.
- MSHA covers.
- GR12 (SAE 100R12/EN 856 R12), GR13 (SAE 100R13/EN 856 R13), GR15 (SAE 100R15), G4SH (EN 856 4SH/DIN 20023 4SH) and G4SP (EN 856 4SP/DIN 20023 4SP) hydraulic applications.



### Braided Hose

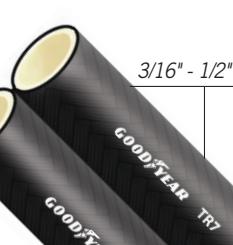
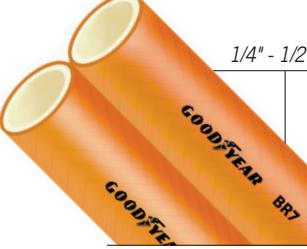
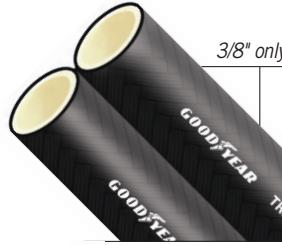
- Higher EN / DIN pressures.
- Arctic™, Desert™, Armorcoat constructions.
- GR1SN (SAE 100R1AT/1SN), Desert HR1SN (SAE 100R1AT/1SN), GR2SN (SAE 100R2AT/2SN), Desert HR2SN (SAE 100R2AT/2SN), Arctic LR2SN (SAE 100R2AT/2SN), Armorcoat CR2SN (SAE 100R2AT/2SN), GR16 (SAE 100R16), GR16SC (SAE 100R16/857 2SC), Armorcoat AR16SC (SAE 100R16/857 2SC), GR17 (SAE 100R17), Armorcoat AR17 (SAE 100R17).
- GFS (Fire Suppression SAE 100R1AT).
- GCP3 (Constant Pressure 3000, SAE 100R17).



From low pressure to very high pressure applications,  
Goodyear has the hydraulic hose to fit your needs.

## OUR HOSE PRODUCT LINE



|  |                    |                                       |  |
|--|--------------------|---------------------------------------|--|
|     | <b>Desert™ HR5</b> | SAE 100R5                             | General purpose, medium pressure, high temperature applications.           |
|     | <b>GUT</b>         | SAE J1402 Type A1                     | High temperature, medium pressure fleet applications.                      |
|    | <b>GR6</b>         | SAE 100R6/854 R6                      | Low pressure, textile reinforced applications.                             |
|   | <b>Desert™ HR6</b> | SAE 100R6/854 R6                      | Low pressure, high temperature textile reinforced applications.            |
|   | <b>GR7</b>         | SAE 100R7/855 R7                      | Medium pressure, thermoplastic hose with a perforated cover.               |
|   | <b>TR7</b>         | SAE 100R7 (Twin-Line)                 | Medium pressure, twin-line thermoplastic hose with a perforated cover.     |
|    | <b>NR7</b>         | SAE 100R7 (Non-Conductive)            | Medium pressure, thermoplastic hose with a non-perforated cover.           |
|    | <b>BR7</b>         | SAE 100R7 (Twin-Line, Non-Conductive) | Medium pressure, twin-line thermoplastic hose with a non-perforated cover. |
|   | <b>GR8</b>         | SAE 100R8/855 R8                      | High pressure, thermoplastic hose with a perforated cover.                 |
|  | <b>TR8</b>         | SAE 100R8 (Twin-Line)                 | High pressure, twin-line, thermoplastic hose with a perforated cover.      |
|  | <b>NR8</b>         | SAE 100R8 (Non-Conductive)            | High pressure, thermoplastic hose with a non-perforated cover.             |
|  | <b>G4SP</b>        | EN 856 4SP/DIN 20023 4SP              | A 4-spiral hydraulic hose for very high pressure applications.             |

From low pressure to very high pressure applications,  
Goodyear has the hydraulic hose to fit your needs.

## OUR HOSE PRODUCT LINE

|                          |           |
|--------------------------|-----------|
| <b>G 4SH</b>             | 3/4" - 2" |
| EN 856 4SH/DIN 20023 4SH |           |

A 4-spiral hydraulic hose  
for very high pressure,  
pulsating applications.



|                    |           |
|--------------------|-----------|
| <b>GR 12</b>       | 3/8" - 2" |
| SAE 100R12/856 R12 |           |

A 4-spiral hydraulic hose  
for very high pressure  
applications subject to  
surges or flexing.



|                        |           |
|------------------------|-----------|
| <b>ARMORCOAT™ AR12</b> | 3/8" - 2" |
| SAE 100R12/856 R12     |           |

For very high pressure  
applications subject to  
surges or flexing and  
requiring an abrasion  
resistant cover.



|                    |           |
|--------------------|-----------|
| <b>GR 13</b>       | 3/4" - 2" |
| SAE 100R13/856 R13 |           |

A 4 and 6-spiral hose  
for very high pressure  
applications subject to  
surges or flexing.



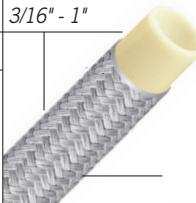
|                        |           |
|------------------------|-----------|
| <b>ARMORCOAT™ AR13</b> | 5/8" - 2" |
| SAE 100R13/856 R13     |           |

A 4 and 6-spiral hose  
for very high pressure  
applications subject to  
surges or flexing and  
requiring maximum  
abrasion resistance.



|               |            |
|---------------|------------|
| <b>GR 14A</b> | 3/16" - 1" |
| SAE 100R14A   |            |

PTFE line hose for air  
compressor discharge,  
hot oils and fluids,  
used under demanding  
physical conditions.



|              |           |
|--------------|-----------|
| <b>GR 15</b> | 1/2" - 2" |
| SAE 100R15   |           |

A 4 and 6-spiral hose  
for severe high pressure  
applications.



|                        |           |
|------------------------|-----------|
| <b>ARMORCOAT™ AR15</b> | 1/2" - 1" |
| SAE 100R15             |           |

A 4-spiral hose for  
severe high pressure  
and abrasive  
applications.



|                    |           |
|--------------------|-----------|
| <b>GR 16 SC</b>    | 1/4" - 1" |
| SAE 100R16/857 2SC |           |

For high pressure service  
with tight bends exceeding  
SAE 100R2 and  
SAE100R16 standards.



|                          |           |
|--------------------------|-----------|
| <b>ARMORCOAT™ AR16SC</b> | 1/4" - 1" |
| SAE 100R16/857 2SC       |           |

For high pressure  
service with tight bends  
requiring maximum  
abrasion resistance.





**GR 17**

SAE 100R17

A 1 and 2-braid hose for high pressure hydraulic applications requiring greater hose flexibility.

3/16" only

**GGUN**

Grease Gun Hose

Used as a grease whip hose or general purpose lubrication line.



**ARMORCOAT™ AR17**

SAE 100R17

For high pressure hydraulic applications requiring greater flexibility and abrasion resistance.



**GHJ**

Jack Hose

For extreme high pressure hydraulic lines for jacking systems.



**GCP 3**

SAE100R17

For high pressure hydraulic applications replacing SAE100R17 with greater flexibility.



**Insta-Grip 300™**

Push-On

For use with push-on fittings, 300 PSI and applications requiring non-conductivity.



**GR 18**

SAE 100R18

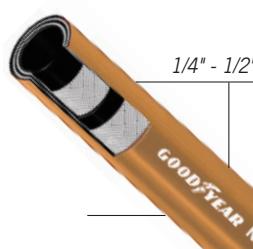
Thermoplastic hose, highly flexible even in cold temperatures.



**Ultra-Grip 300™**

Push-On

For use with push-on fittings, 300 PSI and applications requiring abrasion resistant cover.



**NSFX**

SAFLEX®

Medium pressure applications where shock hazards exist and hose non-conductivity required.



**Insta-Grip TC™**

Push-On

For low pressure hydraulic and pneumatic systems.



**GFS**

Fire Suppression Hose

Medium pressure fire suppressant applications for mining, forestry and fire fighting equipment.



**Galaxy® 4890,  
4826, 4867**

Air Conditioning Hose

For AC applications requiring Cool Clip™ or Cool Crimp™ fittings.

# Goodyear Engineered Products Hydraulic Fittings

ONE SOURCE MANY SELECTIONS

Goodyear Engineered Products is your one source for a wide selection of high-performance hydraulic hose fittings, covering a wide range of designs, configurations, sizes and pressure ratings. Low, medium and high-pressure fittings are available for braided, spiral and thermoplastic hose. Fittings include Ultra-Crimp™ (1-piece), Uni-Crimp™ (2-piece), Dual-Grip™ (2-piece), Field-Grip™ (reattachable), push-on and air conditioning. Our brand line of thread ends include SAE, NPTF, JIC, British Standard, DIN and JIS. End styles include straights, swivels, elbows and flanges. Find the fittings and threads you need, from one source. From Goodyear Engineered Products.

## KEY FEATURES

### Bite-to-Wire

These one-piece crimp fittings provide maximum coupling retention on 1 and 2-braid hose as well as four and six spiral hose. Serrations penetrate the cover with a powerful bite into the wire reinforcement, resulting in even hose compression.



### No Skive

Assemblies made faster, with fewer steps and less mess.

### Full Length Crimp

Maximum coupling retention for a safe and longer lasting assembly; easier to crimp with a lower profile.

### Zinc Plating

- Offers corrosion resistance for extended hose assembly and fitting life, easily surpassing the corrosion resistance of SAE J516, ASTM B117.
- Silver Chromium 6 Free plating on Ultra-Crimp, Uni-Crimp and Dual-Grip fittings.



#### **Full Line of High Pressure Spiral Hose Couplings**

- Code 61 and Code 62 fittings for SAE 100R12 and 100R13.
- Solid one-piece flanged fitting; no braze or weld joints.



#### **Field-Grip™ Fittings**

- Non-skive, non-mandrel for easy installation.



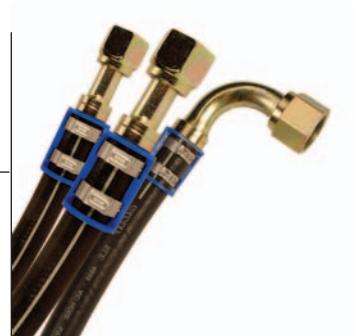
#### **Push-On Fittings**

- Fittings compatible with push-on hose, including Insta-Grip 300™, Ultra-Grip 300™ and Insta-Grip TC™.



#### **AC Fittings**

- Cool Clip™ and Crimp fittings.

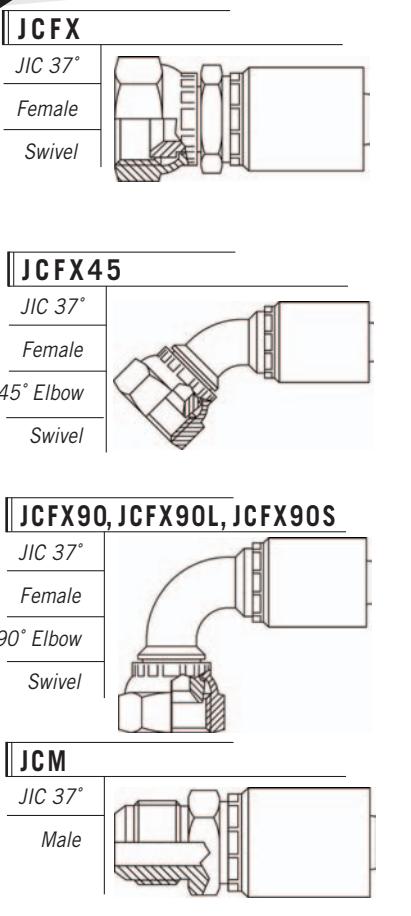


#### **Adapters**

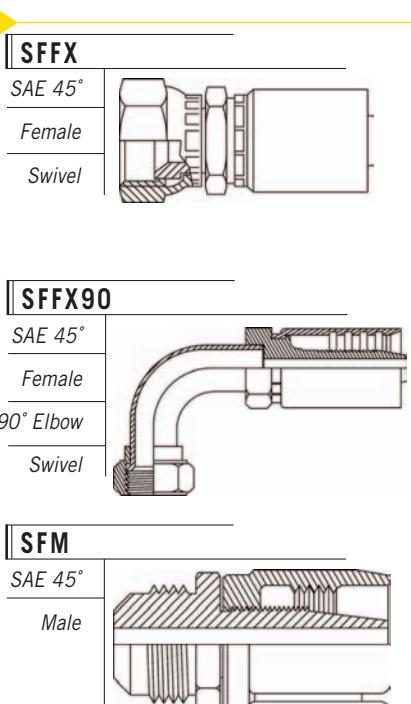
- Change existing end styles.



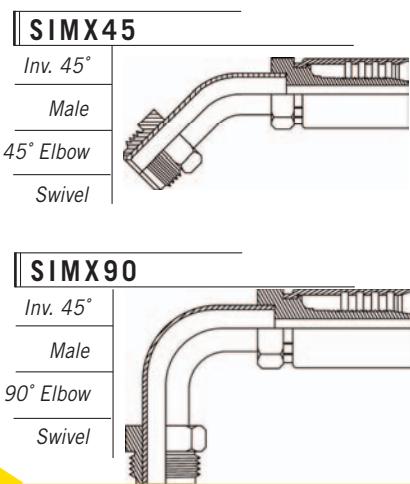
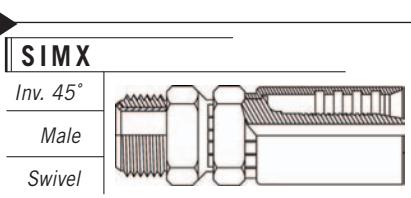
JIC 37°



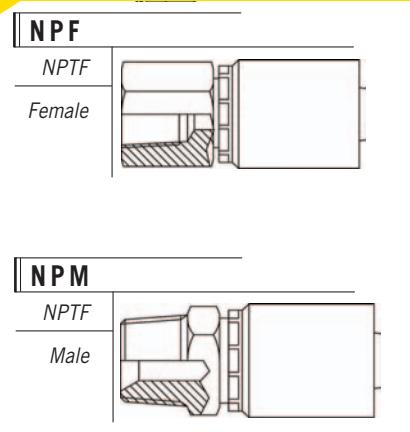
SAE 45°



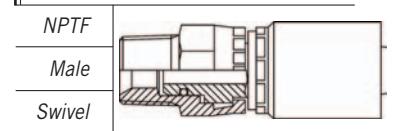
INV. 45°



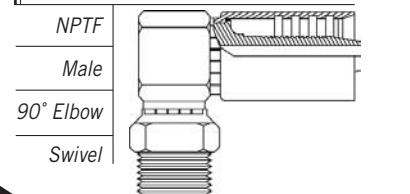
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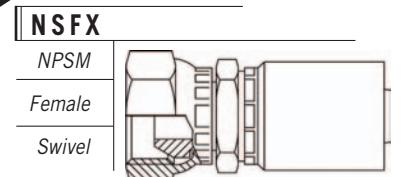
NPMX



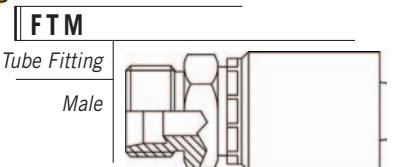
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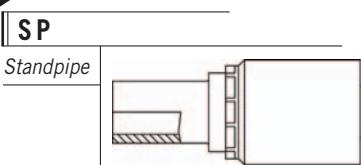
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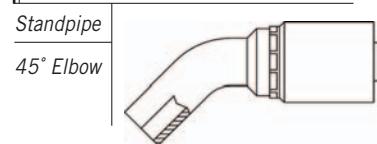
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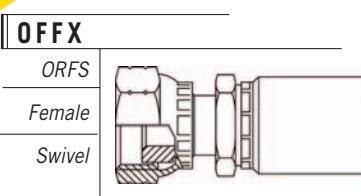
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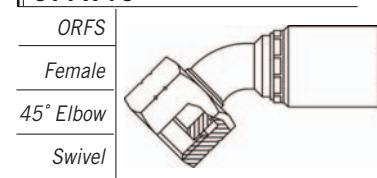
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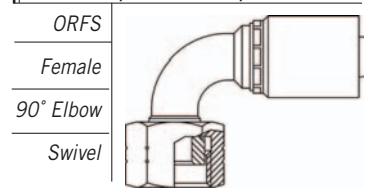
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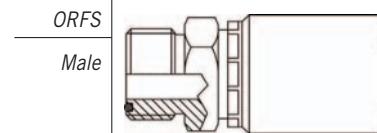
**OFFX45**



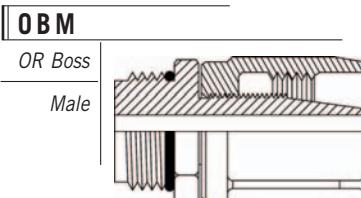
**OFFX90, OFFX90L, OFFX90S**



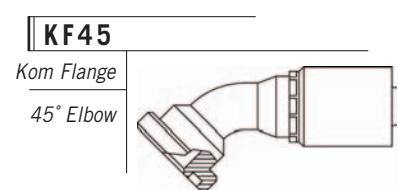
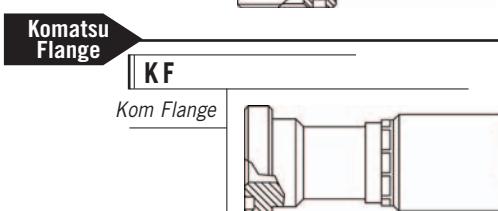
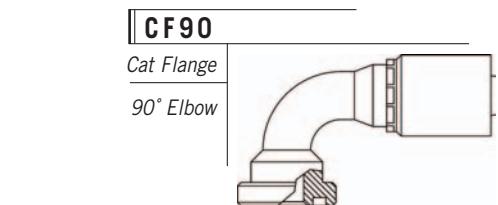
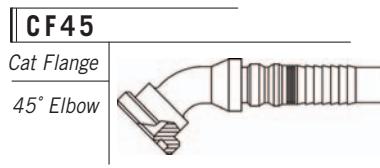
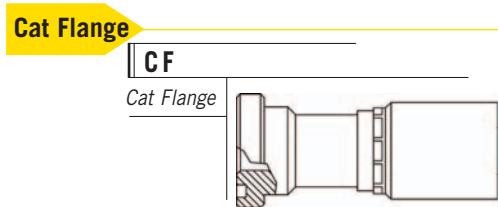
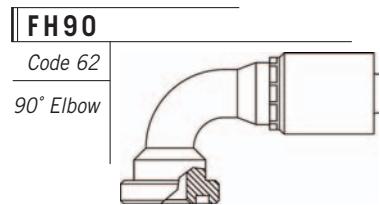
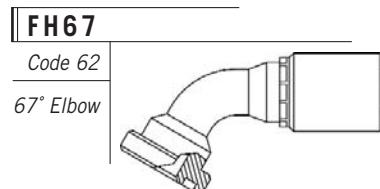
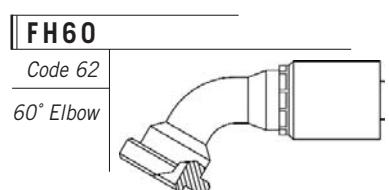
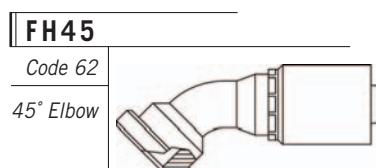
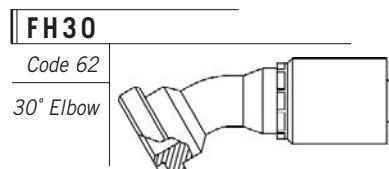
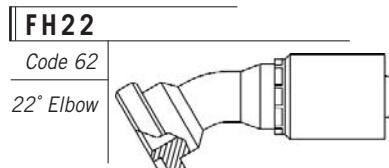
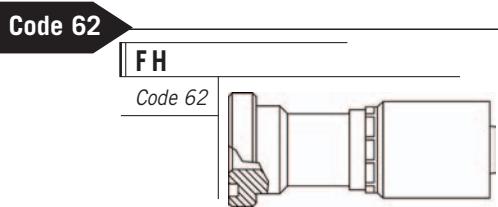
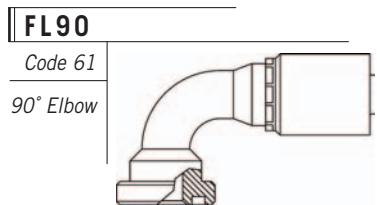
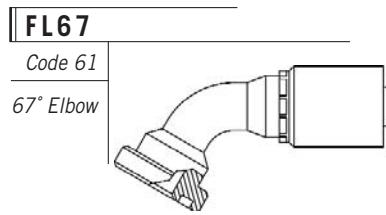
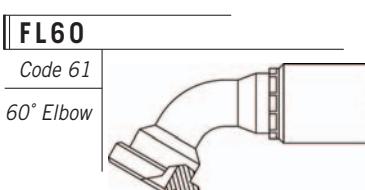
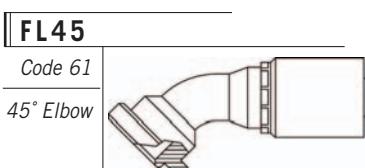
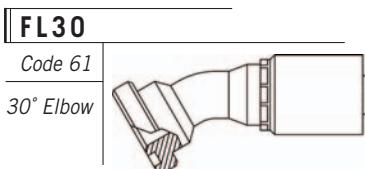
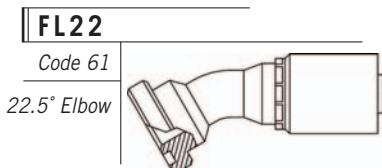
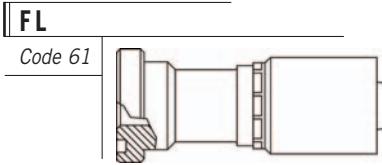
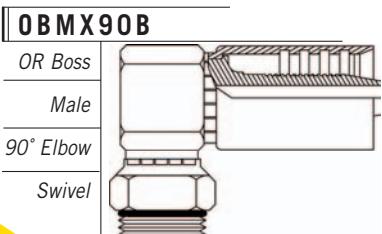
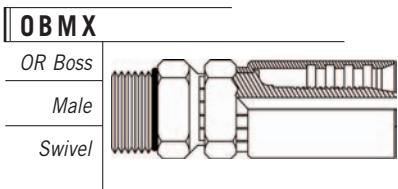
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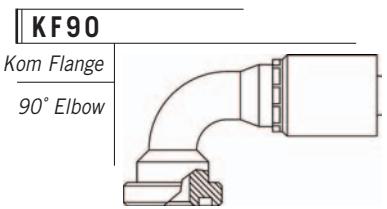
OR Boss



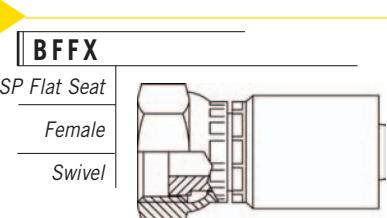
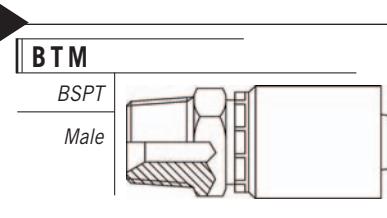
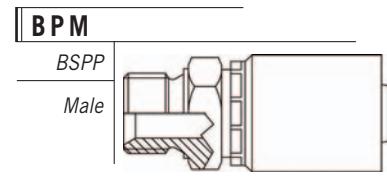
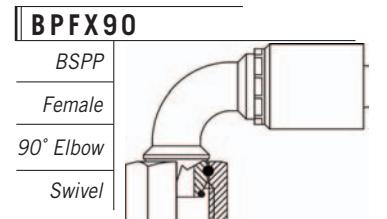
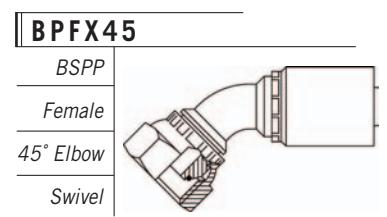
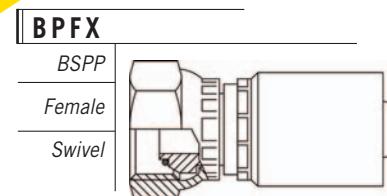
G O O



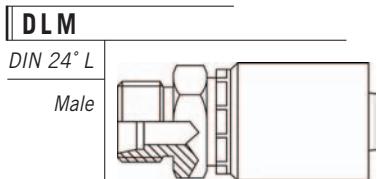
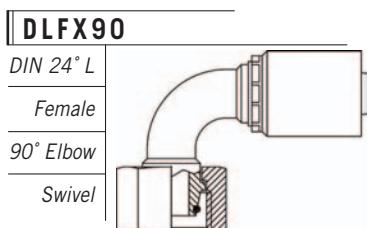
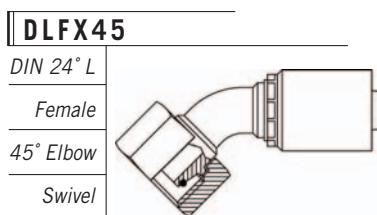
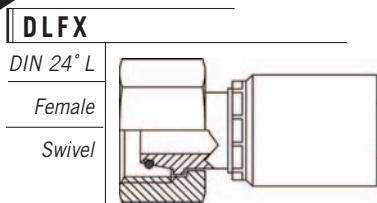
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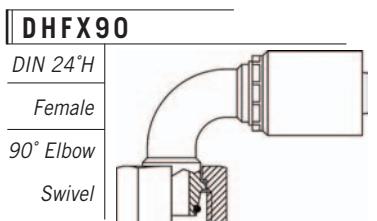
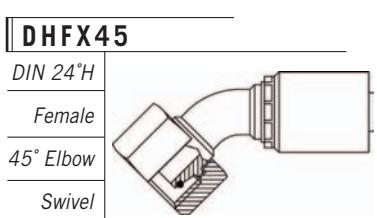
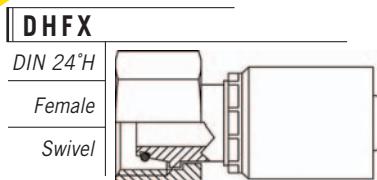
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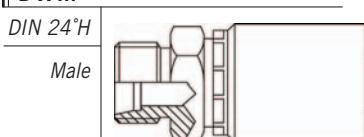
DIN 24° L



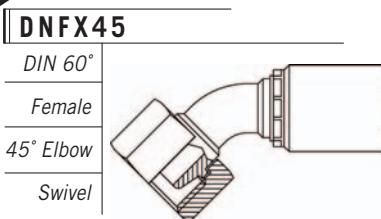
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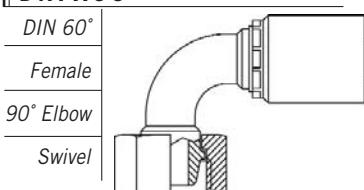
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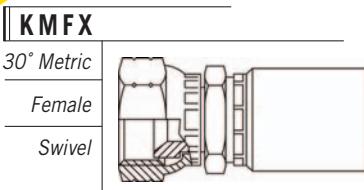
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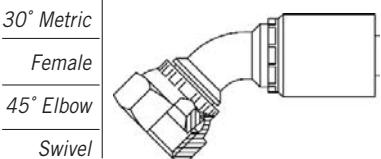
**DNFX90**



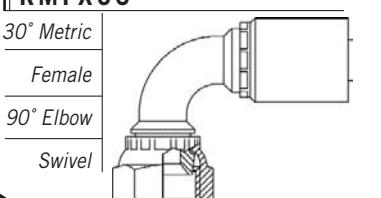
Komatsu  
30° Metric



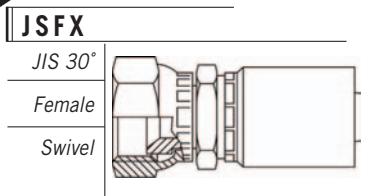
**KMFX45**



**KMFX90**



JIS 30°



# LIC FITTINGS

# Equipment and Accessories

## THE PERMA-CRIMP™ HOSE SHOP

Crimpers to complete the total assembly solution.

### KEY FEATURES

#### Perma-Crimp™ PC125M

- Lightweight for portable field use.
- Three power options. Attach hand, air or electrical pump.
- Capable of crimping up to 1-1/4" 2-braid and 1" 4-spiral hose.



#### Perma-Crimp™ PC125

- Suitable for shop service and bench mounting.
- Includes 1-HP electric pump on a common base.
- Capable of crimping up to 1-1/4" 2-braid and 1" 4-spiral hose.



#### Perma-Crimp™ PC150

- Stationary crimpler with more power to manufacture hose assemblies.
- Includes 2-HP electric pump on a common base for bench mounting.
- Capable of crimping up to 1-1/2" 2-braid and 4-spiral hose.



#### Perma-Crimp™ PC150H

- High volume, stationary crimpler.
- 1-HP power source.
- Capable of crimping up to 1-1/2" 2-braid and 4 spiral hose.



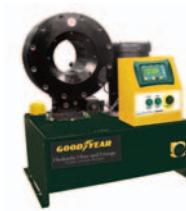
#### Perma-Crimp™ PC200

- High capacity, stationary, "production" crimpler.
- 7.5-HP power source.
- Microprocessor control for fast and accurate adjustments.
- Capable of crimping up to 2" 6-spiral hose.
- Introducing PC200P programmable.



#### Perma-Crimp™ PC400

- High capacity, stationary "production" crimpler.
- 7.5-HP power source.
- Capable of crimping up to 2" 6-spiral and 4" industrial hose.
- Introducing PC 400P, programmable.



Goodyear also offers crimpler dies, cabinets, pumps, cut-off saws and skivers.

H Y D R A U L I C   H O S E   A N D   F I T T I N G S

U . S . A .

1 - 8 0 0 - 8 6 9 - 0 4 3 5  
F A X   1 - 8 0 0 - 2 2 8 - 3 1 4 8

C A N A D A

1 - 8 8 8 - 2 7 5 - 4 3 9 7  
F A X   1 - 8 8 8 - 4 6 4 - 4 3 9 7

W W W . G O O D Y E A R E P . C O M / H Y D R A U L I C S

