Diesel Exhaust Fluid (DEF) Hose

Series 7116M Soft-Flex™ DEF Dispenser Hose
Series 7215 Carboblue™ DEF Suction Hose

Bulk Hose, Couplings and Hose Assemblies to Meet Tough DEF Application Requirements

Series 7116M DEF dispenser hose and Series 7215 DEF suction hose are specially designed for emerging segments of the mobile equipment and transportation markets. Parker offers factory-fabricated hose assemblies in popular configurations, as well as bulk hoses and companion crimp couplings. These products enable a local and rapid response to customers presenting new DEF hose assembly opportunities.

Product Features:

**Series 7116M and Series 7215**
- Peroxide-cured EPDM tube will not contaminate DEF
- Available in bulk or factory-fabricated assemblies in popular end-styles and lengths, stocked for quick delivery
- Bulk hose available in long continuous lengths for on-site, customized assembly fabrication; maximum inventory utilization
- Stainless steel couplings will not corrode and contaminate system
- Validated crimp specifications with Parker couplings for a qualified, tested and secure DEF delivery/transfer system

**Series 7116M**
- 4-spiral construction for extra kink resistance, resists fatigue from flexing

**Series 7215**
- Full suction capability, will not collapse, resists kinking

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www.safehose.com
In 2010, the U.S. Environmental Protection Agency (EPA) mandated that diesel engines on all heavy trucks and buses incorporate a selective catalytic reduction (SCR) system to reduce the amount of nitrogen oxide (NO\textsubscript{x}) released into the atmosphere. The converter injects a mixture of urea and purified water—called diesel exhaust fluid (DEF)—into the engine exhaust gas, which is then absorbed by a catalyst that strips the nitrogen oxide and converts it to non-polluting diatomic nitrogen (N\textsubscript{2}).

Effective in 2014, this mandate also applies to off-road diesel engines; consequently, all agricultural, heavy construction and material handling equipment will be required to incorporate an on-board SCR system. Since this conversion process has already begun, Parker has developed specially designed DEF dispensing and transfer hoses to supply on-board mobile equipment tanks with the urea and purified water mixture. To avoid DEF contamination, the hoses incorporate a special peroxide-cured EPDM tube, and assemblies feature corrosion-resistant stainless steel couplings.

To meet the needs for buses and heavy trucks and to comply with the mandate for mobile equipment, Parker has developed Series 7116M Soft-Flex DEF dispensing hose which is offered in 1/2", 3/4" and 1" sizes, and Series 7215 Carboblue suction hose which is offered in 3/4" size.

The dispensing application requires stainless steel couplings, which are offered with NPTF rigid and BSPP rigid end styles.

IHP stocks bulk hose and couplings, as well as factory assemblies in popular lengths and terminations. All hose and coupling combinations are of Parker design, and crimp specifications have been tested, qualified and validated by Parker.

**WARNING!**

- DEF and urea require special formulations of EPDM. Do not use standard EPDM hose in DEF or urea dispensing/transfer applications.
- Do not use in petroleum dispensing/transfer applications.
- Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.
Series 7116M Soft-Flex DEF Dispenser Hose • 1/2" - 1"

**Tube:** Black customized EPDM, peroxide-cured

**Reinforcement:** Multiple textile plies

**Cover:** Black customized EPDM; smooth finish

**Temp Range:** -40°F to +212°F (-40°C to +100°C)

**Brand Method:** White ink

**Brand Example:** PARKER SERIES 7116M DEF SOFT-FLEX™ (ID) MAX WP 150 PSI MADE IN USA (DATE CODE)

**Design Factor:** 4:1

**Industry Standards:** None applicable

**Applications:**
- DEF fluids, urea; NOT FOR OIL OR REFINED FUEL
- Dispensing for buses, trucks, mobile equipment
- Agriculture, construction, transportation

**Vacuum:** Not recommended

**Compare To:** Veyance DEF Dispensing Hose; Flextral PE60

**Packaging:** Reels; assemblies in cartons

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**Bulk Hose**

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<tr>
<th>Part Number</th>
<th>ID (in)</th>
<th>ID (mm)</th>
<th>Reinf Pliess</th>
<th>OD (in)</th>
<th>OD (mm)</th>
<th>Approx WT (lbs/ft)</th>
<th>Approx WT (kgs/ft)</th>
<th>Min Bend Rad (in)</th>
<th>Min Bend Rad (mm)</th>
<th>Max Rec WP (psi)</th>
<th>Max Rec WP (bar)</th>
<th>Std Pack Qty (ft)</th>
<th>Perm Cplg Rec</th>
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<td>0.11</td>
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**Hose Assemblies**

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<th>Length (mtrs)</th>
<th>Approx WT (lbs/ea)</th>
<th>Approx WT (kgs/ea)</th>
<th>Max Rec WP (psi)</th>
<th>Max Rec WP (bar)</th>
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* Refer to CrimpSource at www.safehose.com for coupling recommendations and crimp specifications.

**Stock:** “Y” indicates stocked item; “N” indicates non-stocked item. Stock status subject to change. Contact Parker Customer Service.

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304 Stainless Steel Crimp Couplings/Plated Brass Ferrules

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**Stock:** “Y” indicates stocked item; “N” indicates non-stocked item. Stock status subject to change. Contact Parker Customer Service.
Series 7215 Carboblue DEF Suction Hose • 3/4”

**Tube:** Black customized EPDM, peroxide-cured

**Reinforcement:** Multiple textile plies with wire helix

**Cover:** Black customized EPDM; wrapped finish

**Temp Range:** -40°F to +212°F (-40°C to +100°C)

**Brand Method:** White text on black stripe

**Brand Example:** RUBBER HOSE CARBOBLUE SM 10 BAR MADE IN ITALY PARKER

**Design Factor:** 3:1

**Industry Standards:** None applicable

**Applications:**
- DEF fluids, urea; NOT FOR OIL OR REFINED FUEL
- Suction and transfer, tank to pump
- Agriculture, construction, transportation

**Vacuum:** Full

**Packaging:** Coils; assemblies in cartons

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**Complementary Product:**

**Series 7373T Blue Thunder® UHMWPE Hose • 3/4” - 4”**

Series 7373T is a large diameter suction and discharge hose designed to handle commonly used acids, chemicals, petrochemicals and solvents, including DEF and urea. The UHMWPE tube will not leach into and contaminate the product being conveyed, and the cover is resistant to abrasion, mild chemicals and ozone. Series 7373T is available in 200-foot continuous lengths.

**Applications:**
- DEF fluids, urea; acid, chemicals, petrochemicals, solvents
- Suction and transfer; in-plant, storage tank and tank truck
- Agriculture, construction, petrochemical, transportation

**Pressure/Temperature:** 200 psi max wp/250°F (121°C)

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Refer to CrimpSource at www.safehose.com for coupling recommendations and crimp specifications.

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