

FUEL SYSTEM HOSE

BARRICADE® FUEL INJECTION HOSE (MPI)

Low-permeation, premium hose for use on all fuel systems, including fuel injection (MPI). Approved for use with gasoline, diesel, bio-diesel including soybean methyl ester (SME), rapeseed methyl ester (RME), palm methyl ester (PME) per ASTM D6751, E-85, methanol, ethanol, ethanol extended gasoline, and gasohol fuels. Patented five-layer Greenshield® barrier technology keeps fuel out of the environment while delivering peak fuel efficiency.

- Exceeds SAE J30R14T2 (except for kink resistance) as well as low-permeation requirements for carburetion.
- Aramid reinforcement spiral braid for superior burst strength.
- Thermoplastic barrier layer.
- Oil, heat, ozone and abrasion resistant cover.
- 225 psi working pressure rating.
- Recommended for any fuel injection applications for superior service life.
- **Temperature rating:** -40° C to 135° C continuous, up to 150°C intermittent.



PACKAGING: I.D. (IN.)	I.D. (MM)	O.D. (IN.)	O.D. (MM)	WORKING (PSI)	2' RETAIL PART NO.	15' LENGTH PART NO.	25' LENGTH PART NO.	250' REEL PART NO.
1/4	6.3	1/2	12.7	225	27334	27347	27339	27344
5/16	8.0	9/16	14.3	225	27335	27348	27340	27345
3/8	9.5	5/8	15.9	225	27336	27349	27341	27346

BARRICADE® CARBURETION FUEL LINE HOSE

Low-permeation, premium hose for use on carbureted engines, PCV and EEC systems, and for fuel return hose on fuel injection systems. Not for use on the pressure-side of fuel injection systems. Approved for use with leaded and unleaded gasoline, diesel, bio-diesel, E-85, methanol, ethanol, and gasohol fuels. Patented five-layer Greenshield® barrier technology keeps fuel out of the environment while delivering peak fuel efficiency.

- Meets SAE J30R14T1, EPA 40 CFR 1051.110, and carburetion. small engine off-road requirements for low permeation (except for kink resistance).
- Textile spiral layer (two spiral).
- Thermoplastic barrier layer.
- Oil, heat, ozone and abrasion resistant cover.
- Recommended for carbureted engines in cars, light trucks, off-road vehicles and small engines.
- **Temperature rating:** -40° C to 125° C.



Note: Do not submerge in gasoline.

Caution: Do not use on pressure lines on fuel injection systems or cooling system applications. Use MPI (4219D) or Barricade Fuel Injection (4219BF) hose for Multi-Port Injection systems.

PACKAGING: I.D. (IN.)	I.D. (MM)	O.D. (IN.)	O.D. (MM)	WORKING (PSI)	2' RETAIL PART NO.	25' LENGTH PART NO.	250' REEL PART NO.
3/16	4.8	13/32	10.3	50	27302	27312	27321
1/4	6.3	1/2	12.7	50	27303	27313	27323
5/16	8.0	9/16	15.9	50	27304	27314	27324
3/8	9.5	5/8	15.9	50	27305	27315	27325
1/2	12.7	25/32	19.8	35	27306	27316	27326



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BARRICADE® MARINE FUEL HOSE

Barricade Marine Fuel Line Hose in U.S Coast Guard Class A1-15 Type R1 approved.

- CARB & EPA Complaint
- Multi-Fuel & Bio-Fuel Compatible



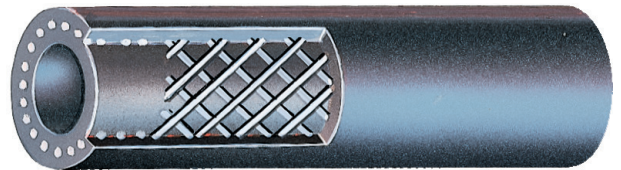
PART NUMBER	PRODUCT DESCRIPTION
27370	BARRICADE MARINE FUEL LINE HOSE - 1/4" X 25" (35 PSI)
27371	BARRICADE MARINE FUEL LINE HOSE - 5/16" X 25" (35 PSI)
27372	BARRICADE MARINE FUEL LINE HOSE - 3/8" X 25" (35 PSI)

SAFETY STRIPE® II RETURN FUEL LINE/PCV/EVAPORATIVE EMISSION

Control Hose (1986 & older)

Multi-purpose hose for use on return fuel lines, PCV and EEC systems, and for fuel return hose connections on diesel fuel injection systems. Approved for use with leaded and unleaded gasoline, diesel, methanol and ethers (up to the legal limits allowed by the EPA).

- Spiral reinforced construction.
- Nitrile tube.
- NBR-PVC cover.
- Oil resistant cover resists the effects of high heat and ozone found in engine compartments.
- Meets SAE 30R6 and 30R7.
- Vacuum rating of 24 In./Hg for sizes less than 1/2" I.D., and 10 In./Hg for sizes 1/2" to 3/4" I.D. at ambient temperatures.
- **Packaging:** See table.
- **Temperature rating:** -40°C to 125°C with gasoline blends



Caution: Do not use for pressure lines on fuel injected engines or for cooling system applications.

Use Barricade Fuel Injection hose for fuel injection applications.

Intended for use with fuels where MTBE concentrations are no greater than 15% by volume.

I.D. (IN.)	I.D. (MM)	O.D. (IN.)	O.D. (MM)	WORK PRESS (PSI)	25 FOOT REEL	25 FOOT BOX	250 FOOT REEL
					PART NO.	PART NO.	PART NO.
1/8	3.2	5/16	7.9	50	27000	—	27099
3/16	4.8	13/32	10.3	50	27001	—	27098
1/4	6.3	1/2	12.7	50	27002	—	27068
3/16	8.0	9/16	14.3	50	27003	—	27069
3/8	9.5	5/8	15.9	50	27004	—	27070
7/16	11.1	47/64	18.3	35	—	27005	27071
1/2	12.7	25/32	19.8	35	—	27006	27019
5/8	15.9	15/16	23.8	35	—	27008	27020
3/4	19.0	1 1/8	28.6	35	—	27010	27021

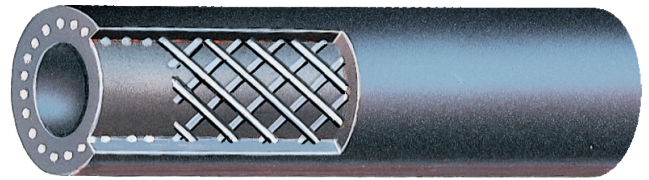


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PACKAGED SAFETY STRIPE® II RETURN FUEL LINE/PCV/EVAPORATIVE EMISSION CONTROL HOSE (1986 & OLDER)

Convenient, popular two foot lengths of return fuel line, PCV and EEC hose in self-service, reusable, recyclable package. Can be stacked on shelf or hung on a pegboard display.

- Easy to follow instructions in each package.
- Handy hose diameter indicator helps customer select the correct size.

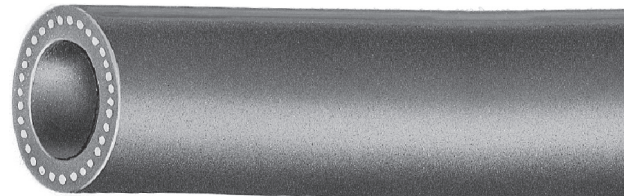


I.D. (IN.)	I.D. (MM.)	O.D. (IN.)	O.D. (MM.)	WORK PRESS (PSI)	2 FOOT PART NO.
1/4	6.3	1/2	12.7	50	27027
5/16	8.0	9/16	14.3	50	27028
3/8	9.5	5/8	15.9	50	27029

SUBMERSIBLE FUEL LINE HOSE

Ordinary fuel line hose is designed to handle fuel on the inside only. The Gates Submersible Fuel Line Hose exceeds the SAE 30R10 rating and is capable of handling gasoline, alcohol-extended gasoline or diesel fuel in fully immersed, mobile, stationary and marine applications.

- Engineered for constant contact with gasoline (and other liquid petroleum distillates) on the inside and the outside.
- Excellent for use on fuel pumps in the gas tank.
- Meets the SAE 30R10 specification for submersible fuel line hose applications.
- Fluoroelastomer (FKM) tubed cover resists gas permeation and retards aging.
- Aramid Fiber reinforcement—the same fiber used in bulletproof vests and is pound-for-pound stronger than steel.
- Maximum temperature rating: +150°C.



I.D. (IN.)	WORKING PRESSURE (PSI)	1 FOOT PART NO.	10 FOOT PART NO.	32.8 FOOT PART NO.
1/4	100	27086	27087	27089
5/16	100	27093	27080	27083
3/8	100	27097	27081	27084

FUEL FILL HOSE

Designed for transferring fuel from vehicle's filler neck to fuel tank. Works on passenger cars and light trucks, as well as on auxiliary fuel tanks on recreational vehicles. For use with most types of fuels - especially resistant to gasoline and diesel.

- Suitable for use with gasoline, gasohol blends of ethanol, methanol, ethers, diesel and biodiesel to B20 (up to maximum concentrations allowed by EPA).
- Corrugated cover with helical wire reinforcement.
- Features a high quality nitrile tube.
- Meets requirements of SAE 30R5.
- Cuts easily with knife and wire cutter.
- **Temperature rating:** -40°F to 212°F (-40°C to +100°C) with gasoline blends, -40°F to 125°F (-40°C to +51°C) with biodiesel (B20).
- **Packaging:** 3 ft. Lengths



I.D. (IN.)	WORK PRESS. (PSI)	PART NO.	STD. PKG.
1 1/4	20	23963	10
1 1/2	20	23924	10
1 7/8	20	23930	10
2	20	23932	10
2 1/4	20	23936	8
2 1/4	20	23940	8



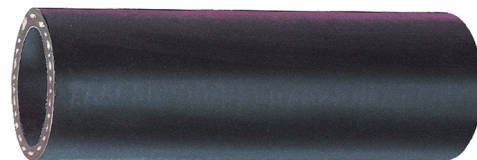
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FUEL FILLER NECK HOSE

Designed specifically for auxiliary gas tanks on recreational vehicles. Excellent replacement for passenger cars and trucks where a straight hose with a minimal bend is required.

- Suitable for use with gasoline, gasohol blends of ethanol, methanol, ethers, diesel and biodiesel to B20 (up to maximum concentrations allowed by EPA).
- Smooth oil resistant cover, tough textile cord reinforcement and petroleum-resistant nitrile tube.
- Non-wire reinforced.
- Meets SAE 30R6 specifications.
- **Temperature rating:** - 40°F to 212°F (-40°C to +100°C)
- **Biodiesel (B20) Temperature rating:** - 40°F to 212°F (-40°C to +51°C)

Caution: Not recommended for marine gasoline applications.



PART NO.	I.D. (IN.)	O.D. (IN.)	CTR. LENGTH (FOOT)	WORK PRESS. (PSI)
24702	1 3/8	1.71	3	20
23964	1 1/2	1.84	3	20
23968	1 3/4	2.09	3	20
23972	2	2.14	3	20
23976	2 1/4	2.59	3	20
23980	2 1/2	2.84	3	20

45° BEND			
PART NO.	I.D. (IN.)	CTR. LENGTH (FOOT)	WORK PRESS. (PSI)
24710	1 1/2	15.9	20
24711	1 3/4	15.9	20
24712	2	15.9	20
24713	2 1/4	15.9	20
24714	2 1/2	15.8	20

90° BEND			
PART NO.	I.D. (IN.)	CTR. LENGTH (FOOT)	WORK PRESS. (PSI)
24715	1 1/2	15.1	20
24716	1 3/4	15.0	20
24717	2	14.9	20
24718	2 1/4	14.7	20
24719	2 1/2	14.6	20

IDEAL™ FUEL INJECTION HOSE CLAMPS RANGE EXPANSION

The Ideal™ 52 series fuel injection hose clamps come in a range to suit fuel hose up to 3/8" I.D.

These are non perforated and have a rolled edge band design provide safe and uniform sealing pressure required by high pressure EFI fuel hose applications.

NUT AND BOLT FUEL INJECTION CLAMP BAND: 9MM ZINC-PLATED CARBON STEEL SCREW: 7MM HEX HEAD ZINC-PLATED CARBON STEEL	
IDEAL PART NUMBER	CLAMPING RANGE
52F9	IDEAL 52F9 EFI CLAMP 7-9MM BX10
52F11	IDEAL 52F11 EFI CLAMP 9-11MM BX10
52F12	IDEAL 52F12 EFI CLAMP 10-12MM BX10
52F13	IDEAL 52F13 EFI CLAMP 11-13MM BX10
52F14	IDEAL 52F14 EFI CLAMP 12-14MM BX10
52F15	IDEAL 52F15 EFI CLAMP 13-15MM BX10
52F16	IDEAL 52F16 EFI CLAMP 14-16MM BX10



All parts are sold in box quantities of 10.

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