

1. ACCESSORY BELT DRIVE

- Serpentine Belt
- Tensioner
- Pulley

2. TIMING SYSTEM

- Timing Belt
- Tensioner/Pulley
- Variable Valve Timing Components

3. COOLING SYSTEM

- Upper/Lower Radiator Hose
- Heater Hose
- Water Pump

4. FUEL SYSTEM

- Fuel Injection Hose
- Fuel Line/Vacuum Tubing

5. AIR CONDITIONING SYSTEM

PolarSeal Hose and Couplings



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CAUTION

Use Gates products only on applications specified in Gates product literature. Install and maintain products according to the vehicle manufacturer's recommended procedures and with recommended tools. Failure to follow these instructions could result in injury or property damage. Gates Corporation disclaims all liability due to failure to follow these instructions.

WARNING!

Do not use Gates belts, pulleys or sprockets on any aircraft propeller or rotor drive systems or in-flight accessory drives. Gates products are not designed or intended for aircraft use.

LIMITED WARRANTY FOR THE LIFE OF THE MERCHANDISE

Goods are warranted to be free from defects in material or workmanship for the life of the Goods (or the published recommended replacement interval specified by Gates). Gates will replace or repair, at its option, any Goods proved defective in material or workmanship during the warranty period. This is the sole remedy for breach of warranty. Color fade and color difference is not warranted. This warranty is void if the defect is caused by improper installation, use or maintenance of the Goods, or used for racing or competition. Goods are not warranted to comply with laws that may apply to use of the Goods not stated in related materials, e.g., use in manned or unmanned aviation or life support applications.

ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY DISCLAIMED. FAILURE TO REPLACE TIMING BELTS OR OTHER GATES PRODUCTS AS SPECIFIED MAY RESULT IN CATASTROPHIC ENGINE OR EQUIPMENT DAMAGE. FOR WHICH GATES DISCLAIMS ALL RESPONSIBILITY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.



ACCESSORY BELT DRIVE SYSTEM





COMPLETE™ SERPENTINE KITS

PRODUCT TYPE: 8576

Complete™ Serpentine Kits make it easy to restore the entire accessory belt drive system. Eliminate customer comebacks by fixing the vehicle the first time by servicing the entire serpentine drive. Neglecting to replace the tensioner and pulley(s) at the same time you replace the belt can ultimately shorten the life of the belt as well as other front-end accessory components. Each kit contains an OE-equivalent belt, tensioner, idler pulley and necessary hardware with installation instructions and tech tips for easy, accurate installation for virtually every vehicle on the road today.

- Designed for convenience, easy parts sourcing and reduced customer comebacks.
- Includes serpentine belt with premium EPDM construction, tensioner, applicable idler pulleys and applicable tensioner hardware.
- Meets or exceeds OE standards in form, function and fit.

NOTE: Kit contents vary depending on specific needs of vehicle kit application.



SOLUTION KITS

PRODUCT TYPE: 7912

Gates – The world's most experienced designer of accessory belt drive systems and manufacturer of premium quality parts – created precision engineered Solution Kits to make it easy to service front-end accessory drives. From belt jump off to chronic belt noise, we offer a line of specially-engineered solutions to enhance Original Equipment drive designs so customer vehicles are better than when they left the showroom. At Gates, we understand what you need to make your customers happy.

- Designed to solve OEM design issues or problematic drives.
- Broad vehicle coverage.
- Includes multi-ribbed belt with premium EPDM construction, related tensioners and idlers.
- See Gates On-line Application Catalog for specific vehicle solutions.



MICRO-V® BELTS

PRODUCT TYPE: 8552



- Special belt construction eliminates belt noise, reduces tension loss and solves problem drive applications.
- EPDM rubber constructions resist cracking on the rib surface.
- Meets or exceeds all specifications from the Original Equipment Manufacturer.



ARAMID MICRO-V® BELTS

PRODUCT TYPE: 8626

Gates, the leader in automotive serpentine belt drive systems, collaborates with OE manufacturers globally to continually evolve the performance and durability of belt drives. Certain vehicle engine applications require specific belt constructions, such as aramid tensile cord, to provide long belt life and eliminate noise and vibration that are inherent on these drives. Utilizing this same technology for the Aftermarket, Gates offers an aramid cord belt for these specified vehicles. This construction matches the OEM to assure a quiet and smooth functioning belt, with the same performance and durability as the OEM part.

- Essential for specifically-identified demanding accessory belt drives.
- Exact OEM aramid cord construction replacement.
- Extends belt life and other accessory drive components on applications requiring replacement of an aramid cord belt.
- Reduces noise, vibration and harshness.





E-START™ MICRO-V® BELTS

PRODUCT TYPE: 8551

Gates E-Start™ Micro-V® Belts serve as a core component of belt-driven starter generator stop-start belt drives, promoting increased fuel efficiency, smaller and virtually silent operation.

- Provides high performance, delivering more than 600,000 starts.
- Reduced noise output, vibration and harshness (NVH).
- Advanced construction utilizing specially formulated aramid tensile cords and adhesion layer for maximum performance in belt-driven starter generator stop-start drives.
- High load and flex capacity.



DUAL-SIDED MICRO-V® BELTS

PRODUCT TYPE: 8550

Gates Dual-Sided Micro-V[®] Belts replace original equipment belts on serpentine drives that require a higher degree of efficiency when transmitting power. These belts are designed for small diameter pulleys, used with or without automatic tensioners.

- Micro-V belt ribs on both sides of the belt.
- Specially designed to resist wear and cracking due to overall reduced thickness in construction.
- Custom setup for specialized Gates Solution Kits for serpentine drives that cause problems from the OEM.
- Broad, application-specific coverage.



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STRETCH FIT® MICRO-V® BELTS

PRODUCT TYPE: 8556

Gates Stretch Fit® Micro-V® Belts, with exclusive self-tensioning technology, fit like a glove and perform properly on unique stretch fit drive systems. Gates continues to add coverage to this growing market segment.

- Specially formulated adhesive literally locks onto the cord, allowing the cord to elongate and stretch, but never lose tension.
- Gates engineered tensile cord has the needed combination of strength and flexibility using advanced polyamide tensile cord.
- Patented highly engineered EPDM belt ribs are extremely resistant to contamination, wear and pilling.

NOTE: Stretch Fit belts are single-use only and must be replaced if removed.



RPM® MICRO-V® BELTS

PRODUCT TYPE: 8552

The only belt in the industry specifically designed for high-output and forced induction engines. Specially engineered to deliver maximum boost and performance, these belts feature the most advanced technology.

- Belt design results in lower heat, noise, vibration, and belt slip for increased durability, improved power transmission and unsurpassed boost.
- Two layers of adhesion gum for maximum strength and durability.
- High-modulus, high strength aramid or polyester cord.





AUTOMOTIVE XL® V-BELTS

PRODUCT TYPE: 8531, 8701

Gates Automotive XL® V-Belt is a durable, long-lasting replacement V-belt designed for the most demanding engine drives. Due to thermal forces in the vehicle engine, this variable notched belt tightens on the drive as it heats up to prevent slippage, improve belt performance and reduce noise.

- Fiber-loaded rubber stock adds flexibility along the length of the belt and provides greater lateral stability in the pulley.
- Form-ground to ensure precise top width and sidewall dimensional control for proper fit to the pulley.
- Thermally-active tensile cords for maintenance-free performance when properly installed and tensioned.
- Resists oil, heat, ozone, weather and aging for improved belt life.
- Meets or exceeds SAE J636C specifications.



DRIVEALIGN® AUTOMATIC BELT TENSIONERS

PRODUCT TYPF: 7808

Gates is a global leader in Original Equipment system design and brings the same OE-quality, durability, fit and performance to our premium DriveAlign® Automatic Belt Tensioners. We ensure every tensioner is manufactured to rigid tolerances and specifications that guarantee OE fit, form and function.

- Comprehensive line includes parts to fit cars, vans, SUVs and light trucks, domestic and import (European and Asian).
- Manufactured using the same or improved technology and quality materials as the Original Equipment Manufacturer (OEM) part, assuring a factory match.
- Patented labyrinth seal protects internal components to meet or exceed OE life expectancy requirements.
- Patented vibration-damping system absorbs extreme vibration to improve tensioner, as well as belt and accessory, life.
- Torsional round spring design provides reliability as well as consistent tension.



DRIVEALIGN® IDLER PULLEYS

PRODUCT TYPE: 7803



- Steel and thermoplastic construction designed to tight manufacturing tolerances for high durability and quality performance.
- Built to last with a superior resistance to dirt, salt, chemicals and other under-hood contaminants.
- OE-quality fit for virtually every domestic or import vehicle on the road today.
- Bearings meet or exceed OE standards with application-specific speed and load requirements, to withstand high under hood temperatures.
- Premium bearings eliminate bearing noise.
- Mounting hardware included for some popular applications.
- Reliable operation under severe conditions.



DRIVEALIGN® ALTERNATOR DECOUPLER PULLEYS (ADP)

PRODUCT TYPE: 7789

Gates DriveAlign® Alternator Decoupler Pulleys allow the alternator to "free-wheel" or "overrun" every time the engine decelerates and provide vibration isolation within the accessory belt drive system, resulting in smoother engine performance, efficiency and increased belt and component life. The line consists of overrunning alternator decoupler pulleys and one-way clutches (not interchangeable).

- Exact OE replacement.
- Chosen by OEMs to reduce noise, vibration and harshness and improve fuel economy.
- Patented design unmatched by any other supplier.





ACCESSORY DRIVE HARDWARE KIT

PART NUMBER: 91051

Keep your Accessory Drive Hardware Kit stocked so you'll always have the necessary hardware to finish a job. Kit contains assortment of bolts, dust shields, bearing inserts and, for GM vehicles, aluminum elbows.

- Detailed descriptions and schematics of each item included inside case cover.
- OE quality components at a discounted price.
- Covers over 60 million vehicles currently in operation.
- Perfect for the shop that needs hardware to finish the job.

PART NO.	SIZE	DESCRIPTION	QTY. IN KIT
91051	Hardware Kit	Tackle Box	1
91051-01	M10 x 15 x 35H	Bolt	5
91051-02	M10 x 15 x 65H	Bolt	5
91051-03	M10 x 15 x 75H	Bolt	5
91051-04	M12 x 15 x 80H	Bolt	5
91051-05	M10 x 15 x 50H	Bolt	5
91051-06	M8 x 10 x 65H	Bolt	5
91051-07	M10 x 15 x 70H	Bolt	5
91051-08	M8 x 10 x 33H	Bolt	5
91051-09	M10 x 15 x 90H	Bolt	5
91051-10	M10 x 15 x 57H	Bolt	5
91051-11	M10 x 15	Nut	5
91051-12	ADP Cap	Сар	3
91051-13	M8DS	Dust Shield	5
91051-14	M10DS	Dust Shield	5
91051-15	10MM	Bushing	5
91051-16	12MM	Bushing	5
91051-19	Long Elbow	Elbow	3
91051-20	Short Elbow	Elbow	2







EUROGRIP® KITS

PRODUCT TYPE: 9901

Gates is the exclusive manufacturer of EuroGrip® Coupling Kits for select VW and Volvo models. Our years of collaboration with these leading automotive OEMs, enables us to design, engineer and manufacture next generation, first-fit drive accessories for use in compact engine designs.

- Flexible design accommodates component misalignment.
- Fiber-loaded construction maximizes torque capability, controls damping and extends part life.
- Excellent dimensional stability at high rotational speeds.
- Lubricated jacket minimizes coupling and end piece wear and retains tooth integrity.
- Predictable shear properties allow for component protection.
- Zero backlash and no moving parts enable silent operation.
- Coupling Kit includes: EuroGrip[®] coupling, decoupler pulley.



EUROGRIP® FLEXIBLE COUPLERS

PRODUCT TYPE: 9901

Gates EuroGrip® Flexible Couplers are developed to transmit torque to drive engine accessories and dampen vibrations between two connected shafts. They relieve the stress that would result from a rigid coupling on applications where these two shafts are subject to misalignment and axial movement. Furthermore, they connect a decoupler pulley or a one-way clutch and accessory.

- Fiber-loaded HNBR construction maximizes torque transmission capability and controls damping, providing excellent long-term aging resistance.
- Glass fiber cord provides excellent dimensional stability at high rotational speeds.
- Lubricated jacket minimizes coupling and end piece wear and retains tooth integrity.
- Predictable shear properties allow for component protection.
- Zero backlash and no moving parts enable silent operation.
- Flexible design accommodates component misalignment for excellent dimensional stability at high rotational speeds.
- Designed for specific VW and Volvo vehicles.







FAN PULLEY BRACKETS

PRODUCT TYPE: 7815

OE-exact Fan Pulley Brackets are constructed from high-quality materials for maximum durability and strength.

- High-quality bearings and casting materials withstand vibrations and imbalances for maximum service life.
- OE-exact design provides a precise fit to ensure easy installation.
- Designed to provide the proper structure and support for the fan clutch.



HEAVY-DUTY FLEET

FLEETRUNNER® HEAVY-DUTY SERPENTINE KITS

PRODUCT TYPE: 8576

Gates FleetRunner® Heavy Duty Serpentine Kits make it easy to perform proper serpentine system service. One part number gets you everything you need in one package so you can keep your fleet on the road. Some kits offer improvements over OE designs, solving problems that have been discovered through thousands of miles of heavy-duty maintenance histories.

- Kit includes application-specific FleetRunner heavy duty serpentine belt(s), FleetRunner tensioner, idler pulleys as required and hardware (where applicable) needed to perform a complete serpentine belt drive refresh.
- FleetRunner belts are engineered to handle high mileage, high idle times and high temperatures in abusive environments.
- Complete system service extends preventive maintenance schedules.
- Engineered to save your fleet money and reduce downtime.



HEAVY-DUTY FLEET - CONTINUED

FLEETRUNNER® HEAVY-DUTY MICRO-V® BELTS

PRODUCT TYPE: 8555



- Patented material provides peak performance at prolonged extreme operating temperatures.
- Heavy-duty construction resists cracking and wear, even at extreme temperatures.
- Special compound provides unmatched flexibility, stability, load carrying capacity and belt life.
- Problem solver designed for the toughest applications.
- Consistently outperforms other heavy-duty serpentine belts on the market.
- Engineered to save your fleet money and reduce downtime.



FLEETRUNNER® HEAVY-DUTY V-BELTS

PRODUCT TYPE: 8711

Gates FleetRunner® Heavy-Duty V-Belts are designed for heavy-duty applications. Patented EPDM construction with distinct green overcord is built specifically for more durability and longer life on heavy-duty drives.

- Patented material provides peak performance at extremely prolonged operating temperatures.
- Heavy-duty construction resists cracking, wear, oil and heat.
- Special compound provides unmatched stability, load carrying capacity and belt life.
- Unique undercord notch pattern offers increased flexibility for smaller diameter pulleys.
- Problem solver for troubled drives.
- Engineered to save your fleet money and reduce downtime.
- Meets RMA oil and heat resistant standards and static conductivity requirements.







GREEN STRIPE® POWERBAND® V-BELTS

PRODUCT TYPE: 8541

Green Stripe® PowerBand® V-Belts are designed for problematic, heavy-duty, high-vibration applications that require belt sets. The PowerBand technology consists of multiple V-belts joined together by a permanent, high-strength tie band that function as a single unit for improved stability and even load distribution, with a secure strand fit into each pulley groove.

- Unique tensile cord design gives belt extra strength, added flexibility and shock-load resistance.
- Molded notches reduce bending stress, especially on small diameter pulleys, while dissipating heat.
- Even load distribution between strands provides better shock-load absorption.
- Eliminates belt turnover or belts jumping off the drive.
- Meets or exceeds SAE J636 specifications.
- Meets RMA oil and heat resistant standards and static conductivity requirements.



GREEN STRIPE® TRUCK AND BUS SERIES V-BELTS

PRODUCT TYPE: 8620

Gates Green Stripe® Truck and Bus Series V-Belts are specifically designed for heavy-duty truck, bus and off-road equipment applications. Absorbs normal shock loads without damage to the belt.

- Molded notches reduce bending stress, especially on small diameter pulleys, while dissipating heat.
- High-modulus, high-strength tensile cord.
- Oil and heat-resistant construction throughout.
- Meets SAE J636b and SAE J637 specifications.
- Meets RMA oil and heat resistant standards and static conductivity requirements.

NOTE: Some sizes available as Gates PowerBand® joined V-belts.



HEAVY-DUTY FLEET - CONTINUED

COOLRUNNER™ REFRIGERATION BELTS

CoolRunner $^{\text{TM}}$ belts are engineered to the same technology and quality standards as the OE belts. These belts are excellent replacements for popular manufacturers of refrigeration units.

- Exact OEM fit and construction means superior belt life and performance.
- Where applicable, aramid cord construction is used in many cases, providing longer service life during frequent and severe shock loads.
- Built to withstand the rigorous continual operation of refrigeration units.
- Offers exceptional reliability in protecting cargo.
- Part numbers consistent with OE number for easy cross-reference.
- Meets or exceeds the performance of each specific application.



HI-POWER® II V-BELTS

PRODUCT TYPE: 9002, 9003, 9004, 9005, 9006

The wrapped classical section Hi-Power® II V-belt has a long reputation for reliability on agricultural and industrial applications. The arched top of the Hi-Power II belt provides superior strength to prevent "dishing" and distortion of the tensile section. Tight manufacturing tolerances provides for matching belts.

- Smoother running with less slip and wear for excellent belt service life and reduced pulley wear.
- High-quality rubber compound protects the belt against heat, ozone and sunlight.
- Proprietary Flex-Weave® cover is a patented fabric construction, providing extended protection to the belt core from oil, contaminants and heat for longer belt life.
- Flex-bonded cords strongly adhere to the body of the belt, resulting in equal load distribution and absorption of bending stress, fatigue and shock loads without cord deterioration.
- Meets RMA oil and heat resistant standards and static conductivity requirements.
- Temperature Range: -22°F to +140°F (-30°C to +60°C).

NOTE: Available in A, B, C, D and E cross-sections as well as Hi-Power II PowerBand® V-belts.



HEAVY-DUTY FLEET - CONTINUED



TRI-POWER® V-BELTS

PRODUCT TYPE: 9012, 9013, 9014

Gates Tri-Power® V-Belts are built for superior performance on heavy-duty drives of classical cross-section. The raw edge construction and special notch design makes the Tri-Power belt especially suited for drives requiring small diameter pulleys and back idlers. The patented ethylene EPDM compound construction allows the belt to resist cracking and handle extreme temperatures.

- Belt edge is machined for even pulley groove contact, resulting in less slippage and wear for smoother running.
- Flex-bonded cords strongly adhere to the body of the belt, resulting in equal load distribution and absorption of bending stress, fatigue and shock loads without cord deterioration.
- Cross-oriented, fiber-loaded rubber compound for flexibility and stability.
- Notches molded into the belt during manufacturing make this belt well suited for drives with smaller diameter pulleys.
- Meets RMA oil and heat resistant standards and static conductivity requirements.
- Temperature Range: -58°F to +248°F (-50°C to +120°C).

NOTE: Available in AX, BX, and CX cross-sections as well as Tri-Power PowerBand® joined V-belts.



SUPER HC® V-BELTS

PRODUCT TYPE: 9332, 9334, 9336

Gates Super HC® V-Belts combine the strength of a wrapped belt construction with the economies of a narrow section V-belt. It transmits more power in a given space and allows more compact drive design than classical section V-belts. In short, it offers you more power and considerably reduces the space needed. This significantly cuts the overall drive cost. Super HC V-belts also have exclusive Gates construction features for longer life on your drives.

- Up to 300% capacity increase over classical belts.
- Proprietary Flex-Weave® cover is a patented fabric construction, providing extended protection to the belt core from oil, contaminants and heat for longer belt life.
- Flex-bonded cords are strongly forged to the belt body, resulting in equal load distribution, resistance to fatigue and shock loads and the absorption of bending stress without cord deterioration.
- Belt edge is machined for even pulley groove contact resulting in smoother running, less slip and wear.
- Meets RMA oil and heat resistant standards and static conductivity requirements.
- Temperature Range: -22°F to +140°F (-30°C to +60°C).

NOTE: Available in 3V, 5V, and 8V cross-sections as well as Super HC PowerBand® joined V-belts.





FLEETRUNNER® HEAVY-DUTY AUTOMATIC BELT TENSIONERS

PRODUCT TYPE: 7780

FleetRunner® Heavy-Duty Automatic Belt Tensioners are the longest-lasting belt tensioners in the industry, engineered to exceed demanding OEM requirements. In laboratory tests under extreme peak-to-peak vibration and contamination tests, FleetRunner heavy-duty tensioners lasted up to 3X longer than competitive aftermarket tensioners.

- Optimized components engineered for maximum strength and durability.
- Patented design provides superior belt alignment and tension for improved drive efficiency and life.
- Patented labyrinth seal prevents contamination of internal parts for maximum durability and service life.
- Long-lasting steel pulleys with dust shields to protect internal bearings from contamination.
- Double row bearings carry more load and last up to 3X longer than two individual bearings.
- Chrome-silicone round torsion spring for less flex-fatigue than flat-spring designs.
- Patented damping mechanism provides maximum stability, reducing vibration and increasing the life of the belt, tensioner and other accessory drive components.



DRIVEALIGN® HEAVY-DUTY IDLER PULLEYS

PRODUCT TYPE: 7803

DriveAlign® Heavy-Duty Idler Pulleys are built to endure the rigors of today's heavy-duty, fleet and off-road equipment.

- Superior bearings out-perform OE idler pulleys.
- Robust, high-quality pulley materials withstand contaminates.
- Precise dimensional tolerance to ensure proper fit and long lasting performance.
- Corrosion-resistant coating prevents rust and increases durability.
- New hardware included on some popular applications.



POWER SPORT RECREATIONAL BELTS



G-FORCE® REDLINE™ CVT BELT

PRODUCT TYPE: 9824

Gates G-Force® RedLine™ CVT Belts are the first of a new generation of Continuously Variable Transmission (CVT) belts. Gates' innovative design results in better acceleration, higher top speeds, less speed ratio and energy loss in extreme off-road environments.

- Improved durability, crack- and wear-resistant means a longer-lasting, higher-performance power transmission belt for the most demanding applications.
- Greater heat resistance and recovery, even under severe duty cycles.
- Optimized, patented Ethylene Elastomeric (EE) compound maximizes axial stiffness enabling belts to run at higher continuous torques or loads.
- Tested under extreme conditions in controlled environments as well as on race vehicles.



G-FORCE® C12® CVT BELTS

PRODUCT TYPE: 9827

G-Force® C12® belts were the first CVT belt utilizing carbon tensile cord for high modulus and extraordinary strength. This high-performance Neoprene and aramid fiber-loaded rubber belt offers Original Equipment technology. The advanced carbon tensile cords are surrounded by specially formulated adhesion gum to reduce edge cord pullout and increase belt life.

- Advanced carbon cord results in high modulus with extraordinary strength for faster acceleration, improved throttle response and consistent shifting performance.
- Trapezoidal top cog with rounded bottom cog provides excellent flexibility and efficiency.
- Aramid fiber-loaded elastomer compound for durability and optimized performance.
- Maintains peak power throughout the shift curve.
- Tested under extreme conditions in controlled environments as well as on race vehicles.





G-FORCE® CVT BELTS

PRODUCT TYPE: 9823

G-Force® CVT drive belts are engineered with the latest construction, materials and measuring technology for superior fit, performance and durability for today's recreational and utility all-terrain equipment.

- Flexible, high-performance materials enable grab-and-go mobility and responsive acceleration.
- Double- or single-cog designs to match the OEM belt with advanced trapezoid top notch and rounded cog design to maximize heat dissipation and flexibility.
- Advanced aramid tensile cords and reinforced fiber-loaded undercord for durability and dependability.
- Viability testing matches OE belt shift curves and pulley speed ratios for excellent performance at a reduced cost.
- Tested under extreme conditions in controlled environments as well as on race vehicles.



POWERLINK® SCOOTER BELTS

PRODUCT TYPE: 9808

Gates POWERLINK® Scooter drive belts are specially designed for a variety of motorized Continuous Variable Transmission (CVT) applications, including street-legal, step-through scooters and Go-Karts. Gates POWERLINK belts are available in two types: Conventional belt, which offers OE-equivalent performance and reliable durability; and our Premium belt, designed for exceptional durability in your high-performance applications.

- Exact speed control.
- Maximum speed adjustment.
- Fast and easy acceleration for smooth scooter operation.
- For applications with 50-150cc range.



TIMING SYSTEM COMPONENTS

Today's highly sophisticated car engines operate at higher temperatures, higher speeds and produce more power requiring highly-engineered materials to meet high-mileage replacement intervals as demanded by OEM's. Gates engineers automotive timing belts in partnership with dozens of top automotive OEM's around the world and bring the same quality, durability, and OE fit to our aftermarket solutions. Gates timing belts provide quiet, reliable, low maintenance performance, with a superior resistance to contamination, heat, and wear. So whether you're looking to stock up your automotive garage with some of the best automotive belts on the market, or you're looking to repair commercial and fleet vehicles for your business, Gates has the automotive aftermarket solutions that power your progress.



POWERGRIP® TIMING COMPONENT KITS (TCK'S)

PRODUCT TYPE: 7782

Gates is the world's leading manufacturer of timing belts and Timing Component Kits. We designed our kits for virtually every vehicle make and model so technicians can conduct complete system replacements and streamline parts sourcing. As the Original Equipment Manufacturer (OEM) for vehicle manufacturers globally, our Timing Component Kits are OE-equivalent or better in service life, quality, and performance.

- Total solution for any application: TCK includes belts, idler(s), tensioners, tensioner springs, supporting hardware, detailed installation instructions and Technical Service Bulletins for troublesome applications.
- Popular kits covering domestic and import (European and Asian) vehicle applications.
- Designed for convenience, easy parts sourcing and reduced customer comebacks.
- Gates warranty matches the original manufacturer's timing belt replacement intervals – not just for parts – but also for labor and other associated costs.

GATES.COM TIMING SYSTEM COMPONENTS







POWERGRIP® TIMING COMPONENT KITS WITH WATER PUMP (TCKWP'S)

PRODUCT TYPE: 7782

Gates Timing Component Kits with Water Pump offer customers the best and most complete repair solution by including the same premium components as our TCK's - timing belts, pulleys and tensioners - as well as a water pump. Timing belt driven water pumps should always be replaced at the same time as the timing belt. Don't take chances. With Gates TCKWP's, you can avoid returns by replacing all critical system components at the same time.

- Total solution for any application: Includes belts, idler(s), tensioners, tensioner springs, water pump, supporting hardware, detailed installation instructions and Technical Service Bulletins for troublesome applications.
- Water pumps are designed and built for long lasting, efficient cooling.
- Hydraulic tensioners included, where needed.
- Everything you need to do the job right, all in one box.
- Gates warranty matches the original manufacturer's timing belt replacement intervals – not just for parts – but also for labor and other associated costs.



AUTOMOTIVE TIMING BELTS

PRODUCT TYPE: 8595

Simply put, no one does timing belts with better design, or bigger market reach, than Gates. As a leading global manufacturer of OE timing belts, we've set the standard on creating aftermarket timing belts that meet or exceed OE standards of fit, function and performance. Resistant to heat, wear and contamination, Gates automotive timing belts have extensive coverage for millions of import (European and Asian) and domestic vehicles.

- PTFE-infused jackets to reduce frictional losses and tooth shear.
- High-grade HNBR rubber for superior heat and contamination resistance.
- Premium tensile members providing maximum strength.
- Aramid-reinforced nylon jackets and backsides increase durability and lifetime.
- Gates warranty matches the original manufacturer's timing belt replacement intervals – not just for parts – but also for labor and other associated costs.

TIMING SYSTEM COMPONENTS GATES.COM





TIMING SYSTEM COMPONENTS - CONTINUED

POWERGRIP® TIMING BELT HYDRAULIC TENSIONERS

PRODUCT TYPE: 7785

If you work with notoriously difficult applications, PowerGrip® Hydraulic Tensioners are the component for the job. With our proprietary PowerGrip technology, our tensioners operate at superior performance levels. Gates engineers analyze failure modes of OE designs, test them under various driving and speed conditions and make continuous adjustments to improve performance, durability and quality. So when you use PowerGrip Hydraulic Tensioners, you're getting even better than the original.

- Resists damage from contaminants with the help of metal bearings.
- Premium bearings that match or exceed OE-quality.
- Refer to PowerGrip Timing Component Kits with Water Pump to ensure a complete system repair.



POWERGRIP® INDIVIDUAL TIMING COMPONENTS

PRODUCT TYPE: 7784,7786

Gates PowerGrip® Timing Components are for those who want to replace individual parts.

- Components include automatic, manual and hydraulic tensioners and idler pulleys.
- Only OE components for the most popular and problematic applications.
- Refer to PowerGrip Timing Component Kits and Timing Component Kits with Water Pump to ensure a complete system repair.



VARIABLE VALVE TIMING SOLENOID

PRODUCT TYPE: 7473

Gates OE performance Variable Valve Timing Solenoids, commonly referred to as Oil Control Valves, are designed to OE specifications in fit, form and performance. Each component is constructed from high quality materials for durability and maximum service life and tested to effectively restore engine performance for better fuel economy, enhanced power, improved idle and reduced emissions.

- Continuously controls oil flow for precise timing and maximum engine performance.
- Direct replacement ensures exact fit and easy installation.
- Superior construction with exceptional components.

GATES.COM TIMING SYSTEM COMPONENTS







VARIABLE VALVE TIMING SOLENOID FILTERS

PRODUCT TYPE: 7473

Gates OE performance Variable Valve Timing Solenoid Filters are designed to OE specifications in fit, form and performance. They are constructed from high-quality materials for durability and maximum service life. Filters effectively capture small particles preventing them from contaminating the variable valve timing system.

- Direct replacement ensures exact fit and easy installation.
- Micron screens are constructed with polished stainless steel to prevent corrosion.
- Designed to filter out harmful particles as small as 0.0059" (0.149 mm) to prevent damage to variable valve timing components.



VARIABLE VALVE TIMING SPOOL VALVE FILTERS AND GASKETS

PRODUCT TYPE: 7473

Gates OE performance Variable Valve Timing Spool Valve Filters and Gaskets provide a cost-savings alternative to replacing the complete spool valve and, if serviced, can extend the life of the spool valve. These gaskets are constructed from high quality materials for durability and maximum service life. They effectively restore engine performance for better fuel economy, enhanced power and reduced emissions.

- Provides a cost-savings alternative to replacing the complete spool valve.
- Direct replacement ensures exact fit, easy installation and leak-free seal.
- Micron screen filters are constructed with polished stainless steel to prevent corrosion.
- Designed to filter out harmful particles as small as 0.0059" (0.149 mm) to prevent spool valve failure.



VARIABLE VALVE TIMING SPROCKETS

PRODUCT TYPE: 7473

Gates OE performance Variable Valve Timing Sprockets, commonly referred to as Cam Phasers and Cam Actuators, are designed to OE specifications in fit, form and performance. Each component is constructed from high-quality materials for durability and maximum service life. Tested to effectively restore engine performance for better fuel economy, enhanced power and reduced emissions.

- Direct replacement ensures exact fit and easy installation.
- OE-matched tooth profiles ensure quiet operation.
- Precisely rotates the position of the sprocket to advance or retard valve timing.
- Superior construction with exceptional components.

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HIGH PERFORMANCE BELTS AND KITS



RPM® MICRO-V® BELTS

PRODUCT TYPE: 8552

The only belt in the industry specifically designed for high-output and forced induction engines. Specially engineered to deliver maximum boost and performance, these belts feature the most advanced technology.

- Belt design results in lower heat, noise, vibration and belt slip for increased durability, improved power transmission and unsurpassed boost.
- Two layers of adhesion gum for maximum strength and durability.
- High-modulus, high-strength aramid or polyester cord.



RPM® TIMING BELTS

PRODUCT TYPE: 8595

No other belt helps protect your engine investment while delivering high performance like Gates RPM® Timing Belts. These belts are incredibly strong and extremely heat resistant. Constructed of HNBR elastomeric composites, you can count on them to withstand the rigors of higher horsepower engines.

- Installs and fits just like the OE version while offering unsurpassed durability, performance and extended life.
- Superior construction reduces the chance of engine damage, particularly on interference engines.
- Specially-formulated HNBR rubber compound provides up to 3X the heat resistance.
- Gripping teeth reinforced with aramid and nylon cover to minimize wear.
- As much as 300% stronger than the standard aftermarket belt.







RPM® TIMING COMPONENT KITS

PRODUCT TYPE: 7782

Gates RPM® Timing Component Kits (TCK) give you everything you need to replace your critical timing system at once with components that deliver OE or better performance and durability. Protect your investment with Gates RPM timing belt kits.

- Timing Component Kits include: Specially designed RPM timing belt, idler(s), tensioner and supporting hardware.
- Designed and engineered for high-performance applications.
- Most kits include OE tensioners and idlers.
- Popular kits for high-performance applications.



RPM® TIMING COMPONENT KITS WITH WATER PUMP

PRODUCT TYPE: 7782

Gates RPM® Timing Component Kits with Water Pump (TCKWP) offer the same OE components as our RPM TCKs - with the addition of a water pump. Timing belt driven water pumps should always be replaced at the same time as the timing belt. Protect your investment. With Gates RPM TCKs, you can replace all critical system components at the same time.

- Everything you need to do the job right, all in one box, including formulated Gates high-performance timing belt, idler(s), tensioner, water pump and supporting hardware.
- Water pumps are designed and built for long lasting, efficient cooling.
- Hydraulic tensioners included where applicable.

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INDUSTRIAL BELTS



HI-POWER® II V-BELTS

PRODUCT TYPE: 9002, 9003, 9004, 9005, 9006

The wrapped classical section Hi-Power® II V-belt has a long reputation for reliability on agricultural and industrial applications. The arched top of the Hi-Power II belt provides superior strength to prevent "dishing" and distortion of the tensile section. Tight manufacturing tolerances provides for matching belts.

- Smoother running with less slip and wear for excellent belt service life and reduced pulley wear.
- High-quality rubber compound protects the belt against heat, ozone and sunlight.
- Proprietary Flex-Weave® cover is a patented fabric construction, providing extended protection to the belt core from oil, contaminants and heat for longer belt life.
- Flex-bonded cords strongly adhere to the body of the belt, resulting in equal load distribution and absorption of bending stress, fatigue and shock loads without cord deterioration.
- Meets RMA oil and heat resistant standards and static conductivity requirements.
- Temperature Range: -22°F to +140°F (-30°C to +60°C).

NOTE: Available in A, B, C, D and E cross-sections as well as Hi-Power II PowerBand® V-belts.



TRI-POWER® V-BELTS

PRODUCT TYPE: 9012, 9013, 9014

Gates Tri-Power® V-Belts are built for superior performance on heavy-duty drives of classical cross-section. The raw edge construction and special notch design makes the Tri-Power belt especially suited for drives requiring small diameter pulleys and back idlers. The patented ethylene EPDM compound construction allows the belt to resist cracking and handle extreme temperatures.

- Belt edge is machined for even pulley groove contact, resulting in less slippage and wear for smoother running.
- Flex-bonded cords strongly adhere to the body of the belt, resulting in equal load distribution and absorption of bending stress, fatigue and shock loads without cord deterioration.
- Cross-oriented, fiber-loaded rubber compound for flexibility and stability.
- Notches molded into the belt during manufacturing make this belt well suited for drives with smaller diameter pulleys.
- Meets RMA oil and heat resistant standards and static conductivity requirements.
- Temperature Range: -58°F to +248°F (-50°C to +120°C).

NOTE: Available in AX, BX, and CX cross-sections as well as Tri-Power PowerBand® joined V-belts.

GATES.COM INDUSTRIAL BELTS



INDUSTRIAL BELTS - CONTINUED



SUPER HC® V-BELTS

PRODUCT TYPE: 9332, 9334, 9336

Gates Super HC® V-Belts combine the strength of a wrapped belt construction with the economies of a narrow section V-belt. It transmits more power in a given space and allows more compact drive design than classical section V-belts. In short, it offers you more power and considerably reduces the space needed. This significantly cuts the overall drive cost. Super HC V-belts also have exclusive Gates construction features for longer life on your drives.

- Up to 300% capacity increase over classical belts.
- Proprietary Flex-Weave® cover is a patented fabric construction, providing extended protection to the belt core from oil, contaminants and heat for longer belt life.
- Flex-bonded cords are strongly forged to the belt body, resulting in equal load distribution, resistance to fatigue and shock loads and the absorption of bending stress without cord deterioration.
- Belt edge is machined for even pulley groove contact resulting in smoother running, less slip and wear.
- Meets RMA oil and heat resistant standards and static conductivity requirements.
- Temperature Range: -22°F to +140°F (-30°C to +60°C).

NOTE: Available in 3V, 5V, and 8V cross-sections as well as Super HC PowerBand® joined V-belts.

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SUPER HC® MOLDED NOTCH V-BELTS

PRODUCT TYPE: 9201

Super HC® Molded Notch V-Belts provide the solution for high horsepower in limited drive weight or space applications. Our proprietary construction process provides a superior combination of flex and load-carrying capacity, transmitting up to 3X the horsepower versus comparably sized belts. With increased transmission efficiency, this belt allows for a more compact and highly economical drive design.

- Promotes smoother, quieter operation, with less slippage and belt wear for improved belt life reducing expensive maintenance time.
- More compact design compared to classical section V-belts and optimally designed for high horsepower, space-constrained applications with small pulley diameter drives.
- Proprietary Flex-Weave® cover is a patented fabric construction, providing extended protection to the belt core from oil, contaminants and heat for longer belt life.
- Flex-bonded cords are strongly forged to the belt body, resulting in equal load distribution, resistance to fatigue and shock loads and the absorption of bending stress without cord deterioration.
- Precision-ground straight sidewalls give a uniform wedging action and ensure the belt fits correctly in the pulley grooves for even wear and extended belt life.
- Molded notches reduce and evenly distribute thermal and bending stresses and reduce noise.
- Patented Ethylene Elastomeric (EE) compound construction protects belt against heat, ozone and sunlight.
- Meets ARPM/RMA IP-3-2 oil and heat resistance standards and ARPM/ RMA IP-3-3 static conductivity requirements.
- Temperature Range: -70°F to +250°F (-57°C to +121°C).

NOTE: Available in 3VX, 5VX, and 8VX cross-sections as well as Super HC Molded Notch PowerBand® joined V-belts.

GATES.COM INDUSTRIAL BELTS







SUPER HC® AND SUPER HC® MOLDED NOTCH POWERBAND® V-BELTS

PRODUCT TYPE: 9385, 9386, 9387, 9388, 9389

When uptime is a must, equip your drives with Gates Super HC® PowerBand® V-Belts. Super HC PowerBand belts offer a solution for drives where single belts vibrate, turn over or jump off the pulleys. With a superior combination of flex and load, the PowerBand construction consists of multiple V-belts joined together by a permanent, high strength tie band that functions as a single unit. This means a tougher, more stable solution with even load distribution and each strand fitting securely in the pulley groove. The tie band assures high lateral rigidity, guiding the belt in a straight line and preventing it from coming off the drive.

- Tie Band construction assures high lateral rigidity, guiding the belt in a straight line and preventing it from coming off the drive.
- Highly resistant to tensile and flexing forces, fatigue and shock loads offering high stability and smooth running on the toughest drives.
- Strong band controls belt-to-belt distance and prevents sideways bending.
- Proprietary Flex-Weave® cover is a patented fabric construction, providing extended protection to the belt core from oil, contaminants and heat for longer belt life.
- Flex-bonded cords are strongly forged to the belt body, resulting in equal load distribution, resistance to fatigue and shock loads and the absorption of bending stress without cord deterioration.
- Meets or exceeds RMA standards for static conductivity and heat and oil resistance.
- Temperature Range: -22°F to +140°F (-30°C to +60°C).

NOTE: Available in 3V, 3VX, 5V, 5VX and 8V cross-sections.

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PREDATOR® PREMIUM V-BELTS

Made to take on your toughest jobs, Predator® Single Belts are the markets' leading heavy-duty V-belts. The stronger than steel extra heavy-duty belt construction is designed to handle high horsepower motors, frequent shock loads, high heat, and the harshest operating environments in extremely demanding applications. They provide extraordinary high impact strength, capacity, and wear resistance.

- Aramid tensile cords limit stretch while providing extraordinary strength and durability.
- Bareback cover resists debris and allows the belt to slip under extreme shock load conditions, reducing heat buildup and prolonging belt life.
- Minimal retensioning reduces maintenance needs.
- The puncture and abrasion-resistant bareback cover reduces friction and heat buildup during shock load conditions.
- Patented curved sidewall extends drive life by reducing sidewall wear on the belt and sheave.
- Meets RMA oil and heat resistance standards.

NOTE: Predator® Single Belts are not made to meet static resistance requirements. Available in AP, BP, CP, 5VP, 8VP, SPBP and SPCP cross-sections. Also available in Gates PowerBand® joined V-belt constructions.

GATES.COM INDUSTRIAL BELTS



INDUSTRIAL BELTS - CONTINUED



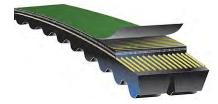
SUPER HC® XP™ NOTCHED PREMIUM V-BELTS

PRODUCT TYPE: 9688

Our Super HC® XP™ Notched Premium V-Belts offer the flexibility of a notched belt, the power of aramid cords and the stability that's exclusive to Gates Super HC construction. These belts are designed for applications where standard notched V-belts fail; transmits an average of 50% more horsepower than our standard Super HC Molded Notch belts to help reduce the overall drive width, weight and cost.

- Aramid tensile cords combine limited stretch with extraordinary strength and durability that is pound-for-pound stronger than steel.
- Machined sidewalls provide even pulley groove contact for smooth operation, less slip and reduced wear.
- Distinctive green backing provides protection and wear resistance.
- Flex-bonded cords are strongly forged to the belt body, resulting in equal load distribution, resistance to fatigue and shock loads and the absorption of bending stress without cord deterioration.
- Notches molded into the belt during manufacturing increase flexibility for compatibility with small-diameter pulley drives.
- Patented Ethylene Elastomeric (EE) compound construction protects belt against heat, ozone and sunlight.
- Temperature Range: -60°F to +250°F (-51°C to +121°C).

NOTE: Available in 3VXP and 5VXP cross-section as well as Super HC XP Notched PowerBand® joined V-belts.



SUPER HC® XP™ NOTCHED PREMIUM POWERBAND® V-BELTS

PRODUCT TYPE: 9694

Gates Super HC® XP™ Molded Notched PowerBand® V-Belts are truly a class above the rest. Using a patented EPDM material, they offer notched belt construction, superior flexibility, aramid tensile cord power and Gates PowerBand stability – all in one power transmission solution. This line of uncompromising, hard-working, durable belts is one example of Gates' ongoing commitment to innovation.

- Transmits an average of 50% more horsepower than our standard Super HC
 Molded Notch PowerBand belts.
- Thrives in extreme temperature environments.
- PowerBand construction ensures even load distribution.
- Meets RMA oil and heat resistant standards and static conductivity requirements.
- Temperature Range: -59°F to 250°F (-51°C to +121°C).

NOTE: Available in 3VXP and 5VXP cross-sections.

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INDUSTRIAL BELTS - CONTINUED

INDUSTRIAL MICRO-V® BELTS (J, L AND M SERIES)

PRODUCT TYPE: 9171, 9173, 9174

Gates Industrial Micro-V® Belts ensure outstanding performance on any industrial multi-ribbed drive, covering a multitude of applications suitable for drives in washing machines, textile machines, vacuum cleaners, lawn mowers, machine tools, medical equipment and many more. The full line of Micro-V belt products includes slabs in several widths as well as single belts to perfectly match customer requirements. Gates Micro-V belts are an ideal choice for applications where space is at a premium, such as appliances, roller conveyors, machine tools and medical equipment.

- Truncated ribs ensure flexibility, reduce heat build-up, improve rib crack resistance and enhance load-carrying capacity on small diameter pulleys.
- High-modulus, low-stretch polyester tensile member provides superior resistance to fatigue and shock loads.
- Extremely smooth and cool running, dampening vibration during high speed operation.
- Specially formulated fiber-reinforced undercord that improves belt stability.
- All elastomeric rubber compound provides oil and heat resistance.
- Long life due to extra load-carrying capacity.
- Improved performance on back idlers.
- Tolerant of pulley groove debris.
- Meets ARPM/RMA IP-3-2 oil and heat resistance standards and ARPM/ RMA IP-3-3 static conductivity requirements.
- Temperature Range: -22°F to +140°F (-30°C to +60°C).

NOTE: Available in J, L and M cross-sections.

GATES.COM INDUSTRIAL BELTS



LAWN + GARDEN BELTS



BLADERUNNER® BELTS

BladeRunner® Belts are engineered to exactly match the composition, construction and fit of the original belts on the most common lawn and garden equipment. With superior durability and a wide range of SKUs, you'll find OEM-quality lawn and garden belts for top brand names.

- Exact OEM fit and construction means more value and longer life.
- Aramid cord construction is utilized in many cases, providing longer service life during frequent and severe shock loads.
- Built to withstand the rigorous start-and-stop operation of lawn and garden equipment.
- Reduces costly downtime and labor associated with replacing a belt.
- Superior performance over fractional horsepower belts on recommended applications.
- Meets or exceeds the performance of each specific application.



POWERATED® V-BELTS

PRODUCT TYPE: 8423

PoweRated® V-Belts are designed as an alternative to conventional light-duty belts, with high-performance construction to deliver more horsepower, less stretch, and provide longer service life. PoweRated belts are suitable for outdoor power equipment, appliances, and industrial applications where Fractional Horsepower (FHP) belts are typically used. They are recommended for heavy-duty drives and clutching applications. Meets the requirements of high power, clutching ability, heavy shock load absorption and backside idler-driven lawn and garden equipment.

- Designed with distinct green color bareback construction for smooth clutching on shock loaded, backside idler-driven equipment to ensure high crack resistance.
- Low, aramid tensile cord positioned in a thin profile gives extreme flexibility and limited stretch with extraordinary strength and durability.
- Meets RMA oil and heat-resistant standards, but not for static conductivity.
- Temperature Range: -22°F to +140°F (-30°C to +60°C).

NOTE: Gates PoweRated V-belts can be substituted for equivalent sizes of FHP low horsepower Gates Truflex® V-belts.

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LAWN + GARDEN BELTS - CONTINUED

TRUFLEX® V-BELTS

PRODUCT TYPE: 8400

Truflex® V-Belts are engineered with superior length stability for minimal take-up requirements, perfect for all industrial, light-duty applications, including fractional horsepower (FHP) motors and applications using backside idlers.

- Flex-bonded cords are strongly forged to the belt body, resulting in equal load distribution, resistance to fatigue and shock loads and the absorption of bending stress without cord deterioration.
- Proprietary Flex-Weave® cover is a patented fabric construction, providing extended protection to the belt core from oil, contaminants and heat for longer belt life.
- Runs with smooth, quiet operation.
- Meets RMA oil and heat-resistant standards and static conductivity requirements.

NOTE: Available in 2L (0), 3L (1), 4L (2) and 5L (3) cross-sections. Do not use on applications where FHP medium horsepower V-belts are recommended.

LAWN + GARDEN BELTS **GATES.COM**



COOLING SYSTEMS



COOLANT HOSE

MODULAR COOLANT HOSE

PRODUCT TYPE: 4294, 4364

Gates is the Automotive Aftermarket leader in the unique modular assembly coolant hose segment. Gates Modular Coolant Hose is manufactured to fit specific applications and are similar to OEM specification to include specific essential integrated OE components such as hose branches, quick-connectors, sensors, restrictors, etc.

- Specifically-engineered materials resist collapse under vacuum.
- Engineered to resist electrochemical degradation the leading cause of hose failure.
- EPDM tube; synthetic fiber knit reinforcement; heat-, ozone- and chemical coolant-resistant EPDM cover.
- Manufactured with OEM-exact hose components (quick connects, branch connectors/tees, sensors, etc.).
- Meets SAE 20R3 EC Class D1 under 25mm (1") ID, SAE 20R4 EC Class D1 for 25mm (1") ID and over.
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

NOTE: Gates recommends replacing clamps each time a new coolant hose is installed. **CAUTION:** Do not use for fuel or oil transfer applications.

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MOLDED COOLANT HOSE

PRODUCT TYPE: 4261

Our Molded Coolant Hoses are manufactured to fit upper, lower, bypass, heater and other coolant applications with OEM-quality specifications, saving you time, money and energy from going to your OE dealer for radiator hose replacements. Gates' molded coolant hose line is the most comprehensive line on the replacement market.

- Specifically-engineered materials resist collapse under vacuum.
- Engineered to resist electrochemical degradation, the leading cause of hose failure.
- Pre-shaped to fit and to ensure perfectly sealed conditions.
- EPDM tube; synthetic fiber knit reinforcement; heat-, ozone- and chemical coolant-resistant EPDM cover.
- Meets requirements of SAE 20R4, class D2 and DIN 73411, Class A (except for tolerances).
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

NOTE: Gates recommends replacing hose clamps each time a new coolant hose is installed.

CAUTION: Do not use for fuel or oil transfer applications.



SMALL I.D. MOLDED COOLANT HOSE

PRODUCT TYPE: 4257

Gates Small I.D. Molded Coolant Hose is factory-molded, OEM-style hose to fit today's smaller, tighter-fitting engine compartments. It can be used for coolant, water and air applications, also approved for marine applications.

- Has all the quality features of Gates molded coolant hose and similar to OEM specifications.
- Engineered to resist electrochemical degradation the leading cause of hose failure.
- EPDM tube, synthetic fiber knit reinforcement, EPDM cover.
- Meets SAE 20R3 Type EC Class D-1 and D-2 specifications.
- Temperature Range: -40°F to 275°F (-40°C -135°C).

NOTE: Gates recommends replacing hose clamps each time a new coolant hose is installed.

CAUTION: Do not use for fuel or oil transfer applications.





VULCO-FLEX® II COOLANT HOSE

PRODUCT TYPE: 4254

Gates Vulco-Flex® II coolant hose is a flexible, durable hose designed to bend in almost any direction. Engineered with improved sealing surface for greater leak resistance, this hose easily replicates the angles and planes of a wide variety of expensive OE coolant hoses for quick, easy, and cost-effective replacement to virtually every vehicle on the road.

- Improved sealing surface for greater leak resistance.
- High flexibility for easy installation.
- Maximum vehicle coverage with minimum inventory.
- Resistant to heat, oil and ozone.
- Rated for SAE 20R5 Class D-2 performance.
- Temperature Range: up to +257°F (+125°C).

NOTE: Gates recommends replacing hose clamps each time a new coolant hose is installed.

CAUTION: Do not use for fuel or oil transfer applications.

PART NO.	I.D. (IN.)	LENGTH (IN.)	WORKING PRESS. (PSI)
25150	1-1/8	12	40
25152	1-1/8	15	40
25154	1-1/8	18	40
25157	1-1/8	23	40
25180	1-1/8, 1-1/4	19	40
25249	1-1/4	7-1/2	40
25250	1-1/4	9-1/2	40
25251	1-1/4	13	40
25252	1-1/4	15	40
25253	1-1/4	17	40
25254	1-1/4	18-1/2	40
25255	1-1/4	20	40
25257	1-1/4	23	40
25260	1-1/4	26-1/2	40
25262	1-1/4	30	40
25265	1-1/4	35	40
25269	1-1/4	41	40
25284	1-1/4, 1-3/8	26	40
25300	1-1/4 x 1-1/2	12	40
25302	1-1/4 x 1-1/2	15-1/2	40
25305	1-1/4 x 1-1/2	19-1/2	40
25307	1-1/4 x 1-1/2	23	40
25309	1-1/4 x 1-1/2	26	40
25311	1-1/4 x 1-1/2	29	40
25321	1-1/4 x 1-1/2	44	40

PART NO.	I.D. (IN.)	LENGTH (IN.)	WORKING PRESS. (PSI)
25384	1-3/8	25	40
25409	1-3/8 x 1-1/2	26	40
25428	1-3/8 x 1-5/8	17	40
25472	1-1/2	8	40
25473	1-1/2	10-1/2	40
25474	1-1/2	12	40
25476	1-1/2	14	40
25477	1-1/2	15-1/2	40
25478	1-1/2	17	40
25480	1-1/2	20	40
25482	1-1/2	22	40
25484	1-1/2	25	40
25487	1-1/2	30	40
25490	1-1/2	35	40
25499	1-1/2	48	40
25526	1-1/2 x 1-3/4	13-1/8	40
25527	1-1/2 x 1-3/4	15	40
25528	1-1/2 x 1-3/4	16-1/2	40
25530	1-1/2 x 1-3/4	20	40
25532	1-1/2 x 1-3/4	22	40
25535	1-1/2 x 1-3/4	27	40
25582	1-1/2 x 2	22	40
25804*	1-1/2	20	40
25806*	1-1/2	23-1/8	40
25808*	1-1/2	25-5/8	40

*90° Bend

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GREEN STRIPE® VULCO-FLEX® COOLANT HOSE

PRODUCT TYPE: 4284

Green Stripe® Vulco-Flex® hose can replace a multitude of molded hose sizes and shapes on a range of trucks, buses and heavy-duty vehicles. Together with Gates straight and curved radiator hoses, this flexible quality hose allows optimum market coverage. Flexible coolant hose with built-in spiral wire is a permanent replacement hose, equaling the performance of molded hose.

- Engineered to resist electrochemical degradation, the leading cause of hose failure.
- Built-in steel spiral wire allows for medium sized curves without kinking or collapsing.
- EPDM tube and Neoprene cover for extended service life.
- Polyester fabric-ply reinforcement vulcanizes into shape without unnecessary strain on connections.
- Resistant to heat, oil and ozone.
- Performs to SAE 20R5 Type EC Class D-2 specifications.
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

CAUTION: Do not use for fuel or oil transfer applications.

PART NO.	I.D. (IN.)	LENGTH (IN.)	WORKING PRESS. (PSI)
26501	1-3/4	13-1/2	40
26502	1-3/4	16-1/2	40
26503	1-3/4 x 2	10	40
26504	1-3/4 x 2	16-1/2	40
26505	1-3/4 x 2	19	40
26506	1-3/4 x 2	23-1/2	40
26507	2	9-1/2	40
26508	2	12-1/4	40
26509	2	14-1/2	40
26510	2	17	40
26511	2	20	40
26512	2	24	40
26513	2	33	40
26514	2 x 2-1/4	8-1/2	40
26515	2 x 2-1/4	15	40
26516	2 x 2-1/4	17-1/2	40
26517	2 x 2-1/4	25	40
26518	2 x 2-1/2	20	40
26519	2-1/4	9	40
26520	2-1/4	11	40
26521	2-1/4	14	40
26522	2-1/4	17	40

PART NO.	I.D. (IN.)	LENGTH (IN.)	WORKING PRESS. (PSI)
26523	2-1/4	19	40
26524	2-1/4	24	40
26525	2-1/4	27	40
26526	2-1/4 x 2-1/2	18	40
26527	2-1/4 x 2-1/2	21	40
26528	2-1/4 x 2-1/2	25	40
26529	2-1/2	11	40
26530	2-1/2	14	40
26531	2-1/2	16	40
26532	2-1/2	24	40
26533	2-1/2	28	40
26534	2-3/4	7	40
26535	2-3/4	14	40
26536	2-3/4	18	40
26537	2-3/4	32	40
26538	3	37	40
26601	1-3/4	6	40
26602	1-3/4	8-1/2	40
26603	1-3/4	11	40
26611	1-3/4	19	40
26612	1-3/4	23-1/2	40







WIRE-INSERTED GREEN STRIPE® COOLANT HOSE

PRODUCT TYPE: 4685WG

It's always best to have versatile solutions to ensure your various needs are met. Use Wire Inserted Green Stripe® hose for coolant or air applications to replace many sizes of tailor-made, molded hoses. The cover cuts easily with a knife and wire cutters, ensuring the right length and easy installation.

- Heavy-duty fabric reinforcement with helical carbon steel wire.
- Engineered with compounds which resist electrochemical degradation.
- Exceeds SAE 20R2 Type EC (Class D2 tube and cover) except in vacuum applications.
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

NOTE: Long spans must be supported every 3 feet. **CAUTION:** Do not use for fuel or oil transfer applications.

PART NO. 5 FT.	PART NO. 10 FT.	I.D. (IN.)	WORKING PRESS. (PSI)	VACUUM (IN. HG)	MIN. BEND RADIUS (IN.)
24916	28316	1	100	25	2
24918	_	1-1/8	100	25	2-1/2
24920	28320	1-1/4	100	25	2-1/2
24922	_	1-3/8	85	25	3
24924	28324	1-1/2	85	20	3-1/2
24926	28326	1-5/8	75	20	3-1/2
24928	28328	1-3/4	75	20	4
24930	28330	1-7/8	60	20	4-1/2
24932	28332	2	60	20	4-1/2
24934	-	2-1/8	55	20	5-1/2
24936	28336	2-1/4	55	20	5-1/2
24938	_	2-3/8	50	20	6-1/2
24940	28340	2-1/2	50	20	6-1/2
24942	_	2-5/8	40	15	7-1/2
24944	28344	2-3/4	40	15	7-1/2
24946	_	2-7/8	40	15	9
24948	28348	3	40	15	9
24956	28356	3-1/2	35	15	12
24964	_	4	30	10	20
24980	-	5	15	5	24
24996	_	6	15	5	30

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GREEN STRIPE® 4-PLY HEAVY-DUTY COOLANT HOSE

PRODUCT TYPE: 4179

Green Stripe® 4-Ply Heavy-Duty Coolant Hoses are recommended for severe operating conditions found on stationary engines, construction equipment and off-road vehicle applications. Handles higher temperatures and resists petroleum additives. Reduces water permeation from the hose – a distinct advantage over silicone.

- Engineered with compounds to resist electrochemical degradation the leading cause of hose failure.
- Nitrile tube specially compounded to handle common coolants and additives.
- Four-ply woven, heavy-duty fabric reinforcement.
- Neoprene cover resists heat, abrasion and oil.
- Exceeds SAE 20R1 (Class B Tube, Class C Cover, Heavy Wall).
- Temperature Range: -40°F to +212°F (-40°C to +100°C) continuous; up to +257°F (+125°C) intermittent.

CAUTION: Do not use for gasoline or diesel transfer applications.

PART NO. 3 FT.	I.D. (IN.)	WORKING PRESS. (PSI)
24428	1-3/4	100
24430	1-7/8	100
24432	2	90
24434	2-1/8	90
24436	2-1/4	90
24438	2-3/8	90
24440	2-1/2	75
24442	2-5/8	75
24444	2-3/4	60
24446	2-7/8	60
24448	3	60
24450	3-1/8	60
24452	3-1/4	50
24456	3-1/2	50
24458	3-5/8	50
24460	3-3/4	50
24464	4	40
24480	5	40







GREEN STRIPE® 2-PLY STRAIGHT COOLANT HOSE

PRODUCT TYPE: 4168

Green Stripe® 2-Ply Straight Coolant Hose is designed for demanding heavy-duty coolant/air applications. The two-ply bias fabric construction maximizes flexibility and strength, with an advanced EPDM tube and cover that resist "cold water leaks" and remain soft and pliable, even under adverse operating conditions.

- Cover marked in 1" increments to facilitate approximate cut lengths, allows "custom-fit" installations.
- Engineered with compounds that resist electrochemical degradation.
- Approved for marine applications.
- Exceeds SAE 20R1 Type EC (Class D-1 Tube and cover, Standard Wall).
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

NOTE: For a maintenance free connection, use PowerGrip® SB clamps. **CAUTION:** Do not use for fuel or oil transfer applications.

PART NO. 3 FT.	I.D. (IN.)	WORKING PRESS. (PSI)
24212	3/4	100
24214	7/8	100
24216	1	100
24218	1-1/8	100
24220	1-1/4	100
24222	1-3/8	100
24224	1-1/2	100
24226	1-5/8	85
24228	1-3/4	75
24230	1-7/8	75
24232	2	60
24234	2-1/8	60
24236	2-1/4	60
24238	2-3/8	60
24240	2-1/2	60
24242	2-5/8	60
24244	2-3/4	60
24246	2-7/8	55
24248	3	25
24250	3-1/8	25
24252	3-1/4	20
24256	3-1/2	18
24260	3-3/4	18
24264	4	12
24272	4-1/2	12

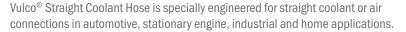
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VULCO® STRAIGHT COOLANT HOSE

PRODUCT TYPE: 4178



- Heat-resistant cover.
- Cover marked in 1" increments to facilitate approximate cut lengths, allows "custom fit" installations.
- Meets SAE 20R1 Standard Wall Class D-2 requirements.
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

NOTE: For a maintenance free connection, use PowerGrip® SB clamps. **CAUTION:** Do not use for fuel or oil transfer applications.

PART NO. 3 FT.	I.D. (IN.)	WORKING PRESS. (PSI)
24008	1/2	105
24012	3/4	80
24014	7/8	80
24016	1	75
24018	1-1/8	75
24020	1-1/4	65
24022	1-3/8	65
24024	1-1/2	60
24026	1-5/8	55
24028	1-3/4	50
24030	1-7/8	50
24032	2	50
24034	2-1/8	45
24036	2-1/4	40
24038	2-3/8	40
24040	2-1/2	35
24042	2-5/8	30
24044	2-3/4	30
24046	2-7/8	25
24048	3	25
24052	3-1/4	20
24056	3-1/2	18
24064	4	12





GREEN STRIPE® VIBRAFLEX® COOLANT HOSE

PRODUCT TYPE: 3177

When your heavy-duty applications require a shorter length hose that still needs to absorb vibration, a fitting misalignment or possibly both, Gates has the perfect solution for you: Green Stripe® Vibraflex® Hose. Its high flexibility reduces installation time and provides lower cost-per-mile operation.

- Oil and heat-resistant Nitrile tube.
- Oil, abrasion and heat-resistant Neoprene cover.
- Two-ply fabric reinforced.
- Exceeds SAE J20 (Class B Tube and Class C Cover).
- Temperature Range: -40°F to +212°F (-40°C to +100°C).

CAUTION: Do not use for gasoline or diesel transfer applications.

DARTNO	LD (IN)	LENGTH (IN)	WORKING PRESS.
PART NO.	I.D. (IN.)	LENGTH (IN.)	(PSI)
23505	1-1/4	4	70
23511	1-3/8	5	60
23515	1-1/2	5	60
23520	1-3/4	5	55
23531	2	3-1/2	50
23533	2	5	50
23547	2-1/4	4-1/2	40
23557	2-3/8	5	35
23559	2-3/8	6-1/4	35
23562	2-1/2	4-1/2	35
23550	2-1/2	6	35
23566	2-3/4	3-1/4	30
23567	2-3/4	4-1/2	30
23568	2-3/4	5-3/8	30
23572	3	4	25
23575	3	7	25
23585	3-1/2	5-1/2	25



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FLEETRUNNER® HI-TEMP STRAIGHT COOLANT HOSE

PRODUCT TYPE: 4175

FleetRunner® Hi-Temp Straight Coolant Hose is specifically designed for heavy-duty applications, trucks, buses and off-road equipment. Engineered with an advanced peroxide-cured EPDM material to provide an exceptionally high temperature rating of up to +300°F. Tested in the toughest fleets and with an OE-quality fit, form and function that stands up to the most demanding driving environments.

- High working pressure rating provides protection for tough fleet and heavyduty applications.
- Engineered with compounds which resist electrochemical degradation.
- Advance peroxide-cured EPDM rubber.
- Exceeds SAE 20R1 specifications.
- Temperature Range: -40°F to +300°F (-40°C to +149°C).

NOTE: For a maintenance-free connection, use PowerGrip® SB clamps.

PART NO. 3 FT.	I.D. (IN.)	WORKING PRESS. (PSI)
24614	7/8	150
24616	1	150
24618	1-1/8	150
24620	1-1/4	150
24622	1-3/8	150
24624	1-1/2	150
24626	1-5/8	150
24628	1-3/4	150
24630	1-7/8	150
24632	2	150
24636	2-1/4	125
24638	2-3/8	125
24640	2-1/2	125
24644	2-3/4	125
24648	3	125

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STRAIGHT SILICONE COOLANT HOSE

PRODUCT TYPE: 4171

For your extremely high temperature radiator, heater and coolant transfer applications, Gates Straight Silicone Coolant Hose is engineered with extra long-lasting silicone rubber for extreme ambient and radiant temperature conditions. The silicone tube and cover resist prolonged exposure to under-hood and coolant heat, weathering, ozone and deterioration.

- Distinct blue cover.
- Resists weathering, ozone, heat and coolant deterioration.
- Exceeds SAE 20R1 (Class A Standard Wall).
- Temperature Range: -70°F to +350°F (-56°C to +177°C).

 $\textbf{NOTE:} \ \ \text{For a maintenance free connection, use PowerGrip} \ \ \text{SB clamps.}$

CAUTION: Do not use for fuel or oil transfer applications.

PART NO. 3 FT.	I.D. (IN.)	WORKING PRESS. (PSI)
24808	1/2	110
24810	5/8	110
24812	3/4	110
24814	7/8	110
24816	1	90
24818	1-1/8	90
24820	1-1/4	85
24822	1-3/8	85
24824	1-1/2	85
24826	1-5/8	80
24828	1-3/4	80
24832	2	75
24836	2-1/4	75
24838	2-3/8	65
24840	2-1/2	65
24844	2-3/4	50
24848	3	50
24850	3-1/8	40
24852	3-1/4	40
24856	3-1/2	35
24860	3-3/4	35
24864	4	35
24872	4-1/2	25

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500°F SEVERE SERVICE SILICONE COOLANT HOSE

PRODUCT TYPE: 4171

Many heavy-duty vehicles manufactured in 2007 or later have advanced emissions systems that run hotter under the hood than previous models, requiring the use of a silicone coolant hose to maintain optimal temperatures. Gates Severe Service Silicone Coolant Hose is a high-quality, 4-ply silicone hose that was built to excel when the going gets hot.

- Used when hose routing passes near exhaust, turbo or hot side of the charge air system.
- Easily identified with blue cover.
- Reinforced with four plies of aramid fabric.
- SAE 20R1 Class A, standard wall.
- Temperature Range: -65°F to +347°F (-55°C to +175°C) continuous; up to +500°F (+260°C) intermittent.

NOTE: For a maintenance free connection, use PowerGrip® SB clamps.

PART NO. 3 FT.	I.D. (IN.)
28225	1
28226	1-1/4
28227	1-1/2
28228	1-3/4
28229	2
28230	2-1/4
28231	2-1/2
28232	2-3/4
28233	3



MOLDED 90° AND 45° SILICONE COOLANT HOSE

PRODUCT TYPE: 4177

Silicone Coolant Hose elbows guarantee outstanding performance for heavy-duty applications in high-temperature environments, offering high durability and low maintenance. Perfect for areas in close proximity to high heat sources like exhaust, turbo hot side or where there is limited air flow around engines creating significantly high-heat conditions.

- Premium 4-ply construction.
- High-heat resistance material meets or exceeds OE specifications.
- Multiple layers of first grade silicone material.
- Industry standard blue cover and orange tube for easy identification.
- Polyester knit reinforcement, unaffected by permeation of coolants and heat.
- Extra thick and resilient tube prevents cold water leaks and hardening under effect of heat.
- High-grade silicone cover resists coolants, ozone, weathering, sunlight and extreme ambient temperatures.
- Exceeds requirements of SAE J20R1, Class A.
- Temperature Range: -65°F to +350°F (-54°C to +177°C).

Gates also offers application-specific molded silicone coolant hose for exact dimensional specifications.

45° BENT			
PART NO.	I.D. (IN.)	ARM LENGTH (IN.)	
28205	1-3/4	6 x 6	
28206	2	6 x 6	
28207	2-1/4	6 x 6	
28200	2-1/2	6 x 6	
28201	2-3/4	6 x 6	
28202	3	6 x 6	
28203	3-1/2	6 x 6	
28204	4	6 x 6	

90° ELBOW			
PART NO.	I.D. (IN.)	ARM LENGTH (IN.)	
28217	1-3/4	6 x 6	
28210	2	6 x 6	
28218	2	12 x 12	
28211	2-1/4	6 x 6	
28219	2-1/4	12 x 12	
28212	2-1/2	6 x 6	
28220	2-1/2	12 x 12	
28213	2-3/4	6 x 6	
28221	2-3/4	12 x 12	
28214	3	6 x 6	
28215	3-1/2	6 x 6	
28216	4	6 x 6	

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90° MOLDED HEATER HOSE

PRODUCT TYPE: 4257, 4261

It can be difficult to find hoses that easily adapt to sharp bends in your assemblies. Gates created a 90° Molded Heater Hose to make replacing hoses with existing sharp bends easy. Conveniently, our 38 sizes handle thousands of applications and are built to last.

- Resists electrochemical degradation and water permeation.
- Use with heater hose connectors and bulk heater hose to create custom assemblies.
- Compatible for coolant, air and water applications.
- EPDM tube and cover, synthetic fiber reinforcement.
- SAE 20R3 EC Class D1 under 25mm (1") ID, SAE 20R4 EC Class D1 for 25mm (1") ID or larger.
- Temperature Range: -40°F to +275°F (-40°C to +135°C).

CAUTION: Do not use for fuel or oil transfer applications.

PART NO.	I.D. (IN.)	ARM LENGTH (IN.)
18010	1/4	4 x 6
18011	1/4	4 x 12
18020	5/16	4 x 6
18021	5/16	4 x 12
18030	3/8	4 x 6
18031	3/8	4 x 12
28460	1/2	4 x 6
28461	1/2	4 x 12
28462	1/2	4 x 18
28464	1/2	4 x 24
28465	1/2	4 x 36
28463	1/2	8 x 18
28466	5/8	4 x 6
28467	5/8	4 x 12
28468	5/8	4 x 18
28470	5/8	4 x 24
28471	5/8	4 x 36
28472	5/8	4 x 48
28473	5/8	4 x 60

PART NO.	I.D. (IN.)	ARM LENGTH (IN.)
28469	5/8	8 x 18
18079	5/8 x 3/4	4 x 6
18076	5/8 x 3/4	4 x 18
18077	5/8 x 3/4	4 x 33
28474	3/4	4 x 6
28475	3/4	4 x 12
28476	3/4	4 x 18
28477	3/4	4 x 24
28479	3/4	4 x 36
28480	3/4	4 x 48
28481	3/4	4 x 60
28478	3/4	8 x 24
18070	3/4 x 5/8	4 x 6
18071	3/4 x 5/8	4 x 12
18073	3/4 x 5/8	4 x 24
18074	3/4 x 5/8	4 x 36
18075	3/4 x 5/8	4 x 60
18072	3/4 x 5/8	8 x 18
18078	3/4 x 5/8	8 x 34







DUAL I.D. STRAIGHT HEATER HOSE

PRODUCT TYPE: 4257

Gates Dual I.D. Molded Heater Hose is designed for durable, long-lasting OE-quality performance on cars, light trucks and other applications requiring diameter changes.

- Engineered with compounds which resist electrochemical degradation.
- Use with heater hose connectors and bulk heater hose to create custom assemblies.
- Meets SAE 20R3 type EC Class D-1 and D-2 specifications.
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

CAUTION: Do not use for fuel or oil transfer applications.

PART NO.	I.D. (IN.)	LENGTH (IN.)
18050	1/2 x 5/8	6
18051	1/2 x 5/8	12
18080	5/8 x 3/4	6
18081	5/8 x 3/4	12
18082	5/8 x 3/4	18
19351	5/8 x 3/4	24
18083	5/8 x 3/4	36
18084	5/8 x 3/4	60

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GREEN STRIPE® HEATER HOSE

PRODUCT TYPE: 3269

With abrasion resistant, heavy-duty construction, Gates Green Stripe[®] Heavy-Duty Heater Hose provides the best cost-per-mile economics for your truck, bus and offroad equipment heater systems. The advanced EPDM tube, cover and reinforcement withstand high under-hood and coolant temperatures; designed and tested for extended use without cracking or hardening.

- Green Stripe construction provides best cost-per-mile economics.
- Abrasion-resistant cover.
- Engineered with materials to resist electrochemical degradation.
- Reduces water loss from water permeating the hose wall and cover.
- Exceeds SAE 20R1 Type EC (Class D-1 tube and cover, Standard Wall).
- Temperature Range: -40°F to +275°F (-40°C to +135°C).

NOTE: For a maintenance free connection, use PowerGrip® SB clamps.

CAUTION: Do not use for fuel or oil transfer applications.

PART NO. 50 FT.	PART NO. 300 FT.	I.D. (IN.)	WORKING PRESS. (PSI)
28436	_	3/8	105
28439	28440	1/2	105
28441	28447	5/8	95
28442	28448	3/4	80
28458	_	3/4	125*
28443	-	7/8	80
28459	_	7/8	175*
28444	28449	1	75
28445	_	1-1/4	70

^{*}Severe application; high psi hose for bus/coach heater applications.

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SAFETY STRIPE® HEATER HOSE

PRODUCT TYPE: 3270

Get more out of your heater hose with Safety Stripe® Heater Hose, constructed for extra-long service life. Intended for use on cars and light trucks, this EPDM hose is unaffected by most coolants, non-oil based coolant additives and high cooling system pressures. (Not recommended for heavy-duty trucks, buses, or off-road construction equipment; use Green Stripe® heater hose for these applications.)

- Good resistance to high temperatures for extended periods of time, which prolongs service life.
- Convenient 6-ft. lengths in self-service, reusable, recyclable package that can be displayed on pegboard.
- Meets SAE 20R3 Standard Wall Class D-2 requirements.
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

CAUTION: Do not use for fuel or oil transfer applications.

PART NO. 6 FT.	PART NO. 25 FT.	PART NO. 50 FT.	PART NO. 250 FT.	I.D. (IN.)	WORKING PRESS. (PSI)
_	_	28407	_	1/4	60
-	_	24808	28423	5/16	60
28489	_	28409	_	3/8	60
28490	_	28410	-	1/2	60
28491	_	28411	28417	5/8	60
28492	_	28412	28418	3/4	50
_	28420	28413	_	1	45

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SILICONE HEATER HOSE

PRODUCT TYPE: 3230

Silicone Heater Hose is constructed and reinforced with temperature-resistant polyester textile cords, making it extremely durable and suited for high-temperature applications such as radiators, heaters and other coolant transfer hose uses.

- High flexibility for versatile applications.
- High environmental resistance to weathering, coolant deterioration and ozone.
- Suitable for emission hose applications.
- Polyester textile cord reinforcement for high durability.
- Approved for marine applications.
- Exceeds SAE 20R3 Class A Tube and Cover.
- Temperature Range: -70°F to +400°F (-57°C to +204°C).

NOTE: For a maintenance free connection, use PowerGrip® SB clamps. **CAUTION:** Do not use for fuel or oil transfer applications.

PART NO. 25 FT.	I.D. (IN.)	WORKING PRESS. (PSI)
26239	3/8	60
26240	1/2	60
26241	5/8	60
26242	3/4	50
26244	1	45







CHARTER® HEATER HOSE

PRODUCT TYPE: 3272

Charter® Heater Hose is economically priced – yet affords long service life.

- Good resistance to high temperatures.
- Moderate resistance to oil and grease contamination.
- Good resistance to non-oil based coolant additives.
- Meets SAE 20R3 Standard Wall Class D-2 requirements.
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

CAUTION: Do not use for fuel or oil transfer applications.

PART NO. 50 FT.	PART NO. 250 FT.	I.D. (IN.)	WORKING PRESS. (PSI)
28400	28403	1/2	60
28401	28404	5/8	60
28402	28405	3/4	50



HEATER HOSE ASSEMBLIES

PRODUCT TYPE: 3266

Gates Heater Hose Assemblies are made with OE-grade materials to provide an OE-exact fit at significant cost savings compared to the OE dealer so you can perform costly, difficult system repairs with confidence.

- Includes everything necessary for a complete assembly repair.
- Designed and constructed for long service life in tough environmental conditions.
- Heavy-gauge steel tubing, superior welds and a high quality tube coating provide resistance to corrosion, rust and vibration.

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ENGINE COOLING VALVES, MODULES & TANKS

ENGINE COOLING FAN MODULES AND RELAYS

PRODUCT TYPE: 7472

Most of today's vehicles are equipped with Electric Cooling Fans that are responsible for keeping the engine coolant within a constant temperature range. On several applications, these fans are controlled by an engine cooling fan module that precisely controls fan speed to minimize energy loss and maximize fuel economy.

- OE-performance replacement modules and relays ensure an exact fit and easy installation.
- Engineered improvements have been incorporated into parts with a high failure rate to improve performance and longevity.
- Effectively restores the cooling system to proper operation and performance.
- Parts are "plug-and-play" for easy installation.
- Reduces repair cost by replacing the module versus the complete fan assembly on applications where the module is not available separately from the dealer.



ELECTRIC HEATER CONTROL VALVES

PRODUCT TYPE: 7474

Gates Electric Heater Control Valves are designed to OE specifications in fit, form and performance. They precisely adjust the amount of coolant flowing through the heater core to control the temperature setting in the passenger compartment.

- OE-exact and application-specific design ensures an easy fit and installation.
- Designed with high quality materials for a long service life.
- Plastic outlets made of 100% virgin resins to prevent premature warping.
- Metal components are constructed with 301 stainless steel to resist corrosion.
- Mounting brackets and hardware included as required.





ENGINE COOLING VALVES, MODULES & TANKS - CONTINUED

COOLANT RESERVOIRS

PRODUCT TYPE: 7442

Engine compartment environment, including temperature fluctuations, can damage coolant tanks and reservoirs over time. Gates Coolant Reservoirs are made with high-grade materials to withstand coolant permeation, temperature fluctuations and environmentally-harsh conditions.

- Includes reservoir cap and level sensor where applicable.
- Direct replacement for easy installation.
- Built to withstand excessive heat, vibration and pressure fluctuations.



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HOSE I.D. REDUCERS

PRODUCT TYPE: 7736

These Hose I.D. Reducers slip inside current Gates hose to reduce inside diameters, providing maximum coverage with minimum hose inventory.

- Makes it possible to adjust inside diameter of larger hoses for emergency replacement.
- Quality rubber construction assures maximum dependability, no leakage.
- Fits straight or flexible Gates coolant hoses.

CAUTION: Recommended for coolant and air applications only.

PART NO.	SIZE (IN.)
26390	1-1/2 to 1-1/4
26391	1-3/4 to 1-1/2
26392	2 to 1-3/4
26393	2-1/4 to 2
26394	2-1/2 to 2-1/4
26395	3 to 2-1/2

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COOLANT SYSTEM COMPONENTS - CONTINUED

PLASTIC HEATER HOSE AND FUEL LINE CONNECTORS

PRODUCT TYPE: 7315

Gates Heater Hose and Fuel Line Connectors use a unique single-barb design to provide improved sealing between single or dual inside diameter hoses. Available in straight, 90° elbow and tee shapes - almost any hose configuration can be constructed.

- Glass-reinforced nylon resists coolant additives, gasoline, diesel, oil and LPG
- Bulkheads assure proper insertion depths.
- Anti-rotation device prevents hose twisting.
- Temperature Range: -40°F to 480°F (-65°C to 250°C).
- Working pressure up to 290 psi.

Gates also offers a convenient Fuel Hose Connector Assortment (Part No. 91174) and Reducer Connector Assortment (Part No. 91177) found in the Merchandisers & Sales Aids section of this catalog.

STRAIGHT CONNECTORS		
PART NO.	O.D. (IN.)	
28561	3/32	
28562	1/8	
28563	5/32	
28564	3/16	
28600	5/16	
28601	1/4	
28602	3/8	
28603	1/2	
28604	5/8	
28605	3/4	
28606	1	

ELBOW CONNECTORS		
PART NO.	O.D. (IN.)	
28571	3/32	
28572	1/8	
28573	5/32	
28574	3/16	
28621	1/4	
28620	5/16	
28622	3/8	
28623	1/2	
28624	5/8	
28625	3/4	
28626	1	

TEE CONNECTORS		
PART NO.	O.D. (IN.)	
28581	3/32	
28582	1/8	
28583	5/32	
28584	3/16	
28631	1/4	
28630	5/16	
28632	3/8	
28633	1/2	
28634	5/8	
28635	3/4	
28638	1	

REDUCER CONNECTORS		
PART NO.	O.D. (IN.)	
28591	3/32 to 1/8	
28592	1/8 to 5/32	
28593	3/16 to 1/4	
28594	5/16 to 3/8	
28609	3/8 to 1/2	
28610	1/2 to 5/8	
28611	5/8 to 3/4	
28612	1 to 3/4	
28639	5/16 to 1/2	
28640	3/8 to 3/4	

TEE REDUCER CONNECTORS			
PART NO.	END 1 O.D. (IN.)	END 2 O.D. (IN.)	90° TEE O.D. (IN.)
28636	5/8	5/8	3/8
28637	3/4	3/4	3/8
28641	5/8	5/8	3/8
28642	1/2	1/2	1/4

"Y" CONNECTORS		
PART NO.	O.D. (IN.)	
28551	3/32	
28552	1/8	
28554	3/16	







ALUMINUM HOSE CONNECTORS

PRODUCT TYPE: 7796

Gates' superior aluminum cooling system connectors carry coolant from the tensioner to the engine with precision-sized ends and high quality EPDM O-rings to create a perfect seal. Developed to replace the failure-prone plastic connectors, which become brittle and crack from high engine heat.

ELBOW CONNECTORS		
PART NO.	END 1 O.D. (IN.)	END 2 O.D. (IN.)
91051-19	7/8	1
91051-20	7/8	1

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CLAMPS

POWERGRIP® SB CLAMPS

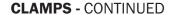
PRODUCT TYPE: 7405

Gates PowerGrip® SB Clamps are designed for your hose assemblies to be maintenance-free, durable and retain dynamic tension for any shape of hose and housing, even on out-of-round fittings and applications. Reliably stops coolant leaks without the need for re-tightening. PowerGrip SB clamps are designed for a secure, tight fit in extreme operating temperatures to eliminate leaks.

- Easy to install with ordinary heat gun.
- Wider sealing area entraps connector bead.
- Stops cold water leaks without the need to re-tighten.
- Conform to any shape of hose and housing, even out-of-round fittings.
- Heat-sensitive thermoplastic with memory to prevent over- or undertightening.
- Temperature Range: -40°F to +302°F (-40°C to +150°C).

PART NO.	SIZE	NOMINAL HOSE I.D. (IN.)	FITS HOSE O.D. (IN.)
32915	SB15	1/4	1/2 to 11/16
32919	SB19	3/8	11/16 to 13/16
32922	SB22	1/2	13/16 to 15/16
32925	SB25	5/8	15/16 to 1-1/16
32929	SB29	3/4	1-1/16 to 1-3/16
32932	SB32	7/8	1-3/16 to 1-5/16
32934	SB34	1	1-5/16 to 1-1/2
32941	SB41	1-1/4	1-1/2 to 1-3/4
32948	SB48	1-1/2	1-3/4 to 2
32954	SB54	1-3/4	2 to 2-1/4
32960	SB60	2	2-1/4 to 2-1/2
32967	SB67	2-1/4	2-1/2 to 2-3/4
32973	SB73	2-1/2	2-3/4 to 3
32979	SB79	2-3/4	3 to 3-1/4
32986	SB86	3	3-1/4 to 3-1/2
32990	SB90	3-1/8	3-1/2 to 3-5/8





GREEN STRIPE® STAINLESS STEEL CLAMPS

PRODUCT TYPE: 7408



- Housing and 9/16" wide band are constructed of heavy-gauge stainless steel.
- Tightening screw is a 400 series stainless steel screw.
- Rounded band edges give your hoses extra protection.
- Hex-shaped screw has a deep slot that tightens with a screwdriver, nut driver or socket wrench.

NOTE: Tighten to 35 in. lb.

PART NO.	SIZE	FITS HOSE I.D. (IN.)	CLAMPING RANGE (IN.)
32201	1	5/32 to 1/2	1/4 to 5/8
32207	7	7/32 to 11/16	5/16 to 7/8
32210	10	3/8 to 5/8	1/2 to 1-1/8
32212	12	5/8 to 3/4	1/2 to 1-1/4
32216	16	3/4 to 1	3/4 to 1-1/2
32220	20	1 to 1-1/4	3/4 to 1-3/4
32224	24	1-1/4 to 1-1/2	1 to 2
32228	28	1-1/4 to 1-3/4	1-5/16 to 2-1/4
32232	32	1-1/2 to 2	1-9/16 to 2-1/2
32236	36	1-3/4 to 2-1/4	7/8 to 1-7/8
32248	48	2-1/2 to 3	1-5/8 to 3-1/2
32252	52	3 to 3-1/4	1-7/8 to 3-3/4
32256	56	2 to 3-1/2	2-1/8 to 4
32260	60	2-1/4 to 3-3/4	2-5/16 to 4-1/4
32264	64	2-1/4 to 4	2-5/8 to 4-1/2
32272	72	3 to 4-1/2	3-1/8 to 5
32304	104	4 to 6-1/2	4 to 7



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SUPER HEX/MINEX CLAMPS

PRODUCT TYPE: 7400

Gates Super Hex and Minex Clamps are a top-quality clamp with extra-strength construction. Super Hex features a 1/2" wide band, while the Minex band is 5/16".

- Durable 200 series stainless steel band and screw housing.
- One-piece screw housing is interlocked onto band for extra strength.
- Cadmium-plated solid head forged from one piece of steel.
- Hex-shaped screw has a deep slot that tightens with a screwdriver, nut driver or socket wrench.

NOTE: Tighten Minex clamps to minimum 14-16 in. lb. (maximum of 20 in. lb.); Super Hex clamps to minimum 25-35 in. lb. (maximum of 50 in. lb.).

PART NO.	SIZE	FITS HOSE I.D. (IN.)	CLAMPING RANGE (IN.)
32001*	1	5/32 to 1/2	1/4 to 5/8
32006	6	1/4 to 3/8	3/8 to 7/8
32007*	7	7/32 to 11/16	5/16 to 7/8
32008	8	5/16 to 1/2	7/16 to 1
32010	10	3/8 to 5/8	1/2 to 1-1/8
32012	12	5/8 to 3/4	1/2 to 1-1/4
32016	16	3/4 to 1	3/4 to 1-1/2
32020	20	1 to 1-1/4	3/4 to 1-3/4
32024	24	1-1/4 to 1-1/2	1 to 2
32028	28	1-1/4 to 1-3/4	1-5/16 to 2-1/4
32032	32	1-1/2 to 2	1-9/16 to 2-1/2
32036	36	1-3/4 to 2-1/4	7/8 to 2-3/4
32040	40	2 to 2-1/2	1-1/8 to 3
32044	44	2-1/4 to 2-3/4	1-5/16 to 3-1/4
32048	48	2-1/2 to 3	1-5/8 to 3-1/2
32052	52	3 to 3-1/4	1-7/8 to 3-3/4
32056	56	2 to 3-1/2	2-1/8 to 4
32064	64	2-1/4 to 4	2-5/8 to 4-1/2
32072	72	3 to 4-1/2	3-1/8 to 5
32104	104	4 to 6-1/2	4 to 7

^{*}Minex





GREEN STRIPE® SILICONE HOSE CLAMPS

PRODUCT TYPE: 7400



- 300 series stainless steel band, screw and housing resist corrosion.
- Four-piece construction and 100% mechanical interlock for added strength and torque capability.
- Combination 5/16" hexagon with deep slot screw head makes installation easy tightens with a screwdriver, nut driver or socket wrench.
- Wide 9/16" band gives 12.5% more compression than 1/2" band.
- One-piece band and liner.
- Inner-liner band eliminates hose cover extrusion.

PART NO.	SIZE	FITS HOSE I.D. (IN.)	CLAMPING RANGE (IN.)
32308	8	5/16 to 1/2	7/16 to 1
32310	10	3/8 to 5/8	1/2 to 1-1/8
32312	12	5/8 to 3/4	1/2 to 1-1/4
32316	16	3/4 to 1	3/4 to 1-1/2
32320	20	1 to 1-1/4	3/4 to 1-3/4
32324	24	1-1/4 to 1-1/2	1 to 2
32328	28	1-1/4 to 1-3/4	1-5/16 to 2-1/4
32332	32	1-1/2 to 2	1-9/16 to 2-1/2
32336	36	1-3/4 to 2-1/4	7/8 to 2-3/4
32340	40	2 to 2-1/2	1-1/8 to 3
32344	44	2-1/4 to 2-3/4	1-5/16 to 3-1/4
32348	48	2-1/2 to 3	1-5/8 to 3-1/2
32352	52	3 to 3-1/4	1-7/8 to 3-3/4
32356	56	2 to 3-1/2	2-1/8 to 4
32364	64	2-1/4 to 4	2-5/8 to 4-1/2
32372	72	3 to 4-1/2	3-1/8 to 5



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GREEN STRIPE® MARINE CLAMPS

PRODUCT TYPE: 7408

Green Stripe® Marine Clamps are constructed of 100% marine-grade stainless steel which is corrosion-resistant and makes it the perfect choice for harsh salt-water marine environments.

- Bands are 9/16" wide with rounded edges.
- Screws feature 300 series stainless steel construction and deep slotted 5/16" hex heads.
- Salt water and corrosion-resistant.

PART NO.	SIZE	FITS HOSE I.D. (IN.)	CLAMPING RANGE (IN.)
32508	8M	5/16 to 1/2	7/16 to 1
32510	10M	3/8 to 5/8	1/2 to 1-1/8
32512	12M	5/8 to 3/4	1/2 to 1-1/4
32516	16M	3/4 to 1	3/4 to 1-1/2
32520	20M	1 to 1-1/4	3/4 to 1-3/4
32524	24M	1-1/4 to 1-1/2	1 to 2
32528	28M	1-1/4 to 1-3/4	1-5/16 to 2-1/4
32532	32M	1-1/2 to 2	1-9/16 to 2-1/2
32536	36M	1-3/4 to 2-1/4	1-7/8 to 2-3/4
32548	48M	2-1/2 to 3	1-5/8 to 3-1/2
32552	52M	3 to 3-1/4	1-7/8 to 3-3/4
32556	56M	2 to 3-1/2	2-1/8 to 4
32560	60M	2-1/4 to 3-3/4	2-5/16 to 4-1/4
32564	64M	2-1/4 to 4	2-5/8 to 4-1/2
32572	72M	3 to 4-1/2	3-1/2 to 5
32604	104M	5 to 6-1/2	5 to 7





GREEN STRIPE® CONSTANT TENSION CLAMPS

PRODUCT TYPE: 7408

Green Stripe® Constant Tension Clamps provide the reusable, self-adjusting band needed for a dependable seal, even in the coldest conditions. These constant tension clamps feature larger, heavy-gauge, precision-formed spring washers with higher rates of band tension and adjustability for a more dependable seal for use in automotive, truck and bus cooling systems and turbochargers.

- All stainless steel construction for maximum corrosion resistance.
- Band and housing are made of 9/16" wide 301 stainless steel.
- Hex-head screw made of 3/8" wide 410 stainless steel.
- Provides a uniform 360° seal.

PART NO.	SIZE	CLAMPING RANGE (IN.)
32710	10	9/16 to 1-1/16
32712	12	5/8 to 1-1/4
32716	16	13/16 to 1-1/2
32720	20	13/16 to 1-3/4
32724	24	1-1/16 to 2
32728	28	1-5/16 to 2-1/4
32732	32	1-9/16 to 2-1/2
32736	36	1-13/16 to 2-3/4
32740	40	2-1/16 to 3
32744	44	2-5/16 to 3-1/4
32748	48	2-9/16 to 3-1/2

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GREEN STRIPE® HEAVY-DUTY CONSTANT TENSION CLAMPS

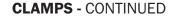
PRODUCT TYPE: 7408

Green Stripe® Heavy-Duty Constant Tension Clamps are a spring-loaded T-bolt clamp for light, medium and heavy-duty trucks, off-road equipment and industrial applications. Designed for use in high-vibration and large diameter applications common with heavy truck, off-road equipment and industrial machinery.

- All stainless steel construction for maximum corrosion resistance.
- Band and housing 5/8" wide 304 stainless steel.
- Hex-head screw 3/8" wide 410 stainless steel.
- Provides a uniform 360° seal.

PART NO.	CLAMPING RANGE (IN.)
32617	1 to 1-3/4
32620	1-1/4 to 2-1/8
32625	1-3/4 to 2-5/8
32630	2-1/4 to 3-1/8
32635	2-3/4 to 3-5/8
32640	3-1/4 to 4-1/8
32645	3-3/4 to 4-5/8
32650	4-1/4 to 5-1/8
32655	4-3/4 to 5-5/8
32660	5-1/4 to 6-1/8
32665	5-3/4 to 6-5/8
32670	6-1/4 to 7-1/8
32675	6-3/4 to 7-5/8
32680	7-1/4 to 8-1/8
32685	7-3/4 to 8-5/8
32690	8-1/4 to 9-1/8







GREEN STRIPE® HEAVY-DUTY T-BOLT CLAMPS AND SPRING LOADED T-BOLT CLAMPS

PRODUCT TYPE: 7422

Green Stripe® Heavy Duty T-Bolt Clamps keep your hoses in place when you need to keep your operation running.

- Built for use with medium and heavy-duty trucks, off-road equipment and industrial machinery.
- Designed to operate in high-vibration applications.
- Clamp has large diameter, required for use with large machinery.

GREEN STRIPE T-BOLT CLAMPS				
PART NO.	SIZE	CLAMPING RANGE (IN.)		
32749	-	1-3/8 to 1-9/16		
32750	-	1-1/2 to 1-5/8		
32751	-	1-5/8 to 1-7/8		
32752	28	1-3/4 to 2		
32753	32	1-7/8 to 2-3/16		
32754	36	2 to 2-5/16		
32755	40	2-1/8 to 2-7/16		
32756	44	2-1/4 to 2-9/16		
32757	48	2-3/8 to 2-11/16		
32758	52	2-1/2 to 2-13/16		
32759	56	2-5/8 to 2-15/16		
32760	60	2-3/4 to 2-1/16		
32761	64	2-7/8 to 3-3/16		
32762	68	3 to 3-5/16		
32763	72	3-1/8 to 3-7/16		
32764	76	3-1/4 to 3-9/16		
32765	80	3-3/8 to 3-11/16		
32766	84	3-1/2 to 3-13/16		
32767	88	3-5/8 to 3-15/16		
32768	92	3-3/4 to 4-1/16		

G	REEN STRIPE	T-BOLT CLAMPS
PART NO.	SIZE	CLAMPING RANGE (IN.)
32769	100	4 to 4-5/16
32770	108	4-1/4 to 4-9/16
32771	116	4-1/2 to 4-13/16
32772	124	4-3/4 to 5-1/16
32773	132	5 to 5-5/16
32774	140	5-1/4 to 5-9/16
32775	148	5-1/2 to 5-13/16
32776	156	5-3/4 to 6-1/16
32777	164	6 to 6-5/16
32778	172	6-1/4 to 6-9/16
32779	180	6-1/2 to 6-13/16
32780	188	6-3/4 to 7-1/16
32781	196	7 to 7-5/16
32782	204	7-1/4 to 7-9/16
32783	212	7-1/2 to 7-13/16
32784	220	7-3/4 to 8-1/16
32785	228	8 to 8-5/16
32786	236	8-1/4 to 8-9/16
32787	244	8-1/2 to 8-13/16

GREEN STRIPE SPRING-LOADED T-BOLT CLAMPS				
PART NO.	SIZE	CLAMPING RANGE (IN.)		
32861	70	3-1/16 to 3-3/8		
32862	86	3-9/16 to 3-7/8		
32863	102	4-1/16 to 4-3/8		
32864	118	4-9/16 to 4-7/8		

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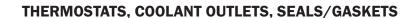
STRAP CLAMPS

PRODUCT TYPE: 7400

Gates Strap Clamps are the perfect solution for low-pressure sealing applications, strapping/bundling and irrigation or sprinkler systems.

- Uniquely plated carbon steel buckles, conform to many shapes.
- Suitable for specialized applications.
- Sizes offered covering clamping diameters of 1" up to 7-1/2".

PART NO.	CLAMP LENGTH	FITS HOSE UP TO
32112	12"	3-1/2" O.D.
32115	15"	4-1/2" O.D.
32124	24"	7-1/2" O.D.





INTEGRATED THERMOSTAT HOUSING

PRODUCT TYPE: 7412

Gates integrated thermostat housings ensure accurate temperature regulation and control to help engines operate more efficiently. As more vehicles are equipped with integrated thermostat housings, Gates research and development is leading the industry in aftermarket thermostat solutions to provide the best quality alternative to OE dealerships.

- All-in-one, bolt-on solution that includes everything needed for a complete job including thermostat, insert, seal and housing.
- Meets or exceeds OE standards for fit, form and performance.
- Precision temperature regulation & control, including application-specific adaptive MAP-control.

△ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov





COOLANT OUTLETS

PRODUCT TYPE: 7412

Gates Coolant Outlets provide an improved and cost effective answer to common design, manufacturing and material issues found in other aftermarket options. With full line coverage, the program consists of everything you need from water outlets to complete thermostat housing assemblies. These coolant outlets are designed to fit and perform like the original and provide long service life.

- Improved seal design provides a leak-free performance.
- Advanced weld process guarantees consistent and durable construction.
- Top quality materials prevent warping and resistance to corrosion.
- Full line coverage consisting of water outlets, water inlets, coolant hose flanges, coolant filler necks, coolant connectors, coolant crossovers, coolant air bleeder housings, thermostat covers and thermostat housings and assemblies.



OE TYPE THERMOSTATS

PRODUCT TYPE: 7412

Gates OE Type Thermostats are engineered to provide precise temperature control and leak-free, OEM-equivalent fit every time.

- Quality-controlled factory calibration assures accuracy of opening and closing, regardless of pressure changes.
- OEM fit, function and design for precise engine cooling.
- Jiggle pins for air venting, seals and gaskets make these thermostats equivalent to the original equipment parts.

★ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

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PREMIUM THERMOSTATS

PRODUCT TYPE: 7412

Gates Premium Thermostats feature a heavy gauge stainless steel construction for improved corrosion resistance, as well as an upgraded spring for increased temperature stability under normal operation conditions.

- Upgraded thermal valve prevents thermal shock to cooling system components.
- Specially-formulated wax mixture reacts quickly to changes in coolant temperature.
- Jiggle pins for air venting, seals and gaskets make these thermostats equivalent to the original equipment part.
- Well-suited for severe duty and high-performance applications.



ECONOMY THERMOSTATS

PRODUCT TYPE: 7412

Gates Economy Thermostats offer precision temperature control for vintage automotive, heavy-duty truck, bus, and heavy equipment applications.

- Consistent and reliable opening temperature ensures vintage applications continue to have normal engine operation.
- Factory-calibrated spring ensure smooth operation of thermal valve.
- Opening temperature regulated by factory-calibrated wax element.

★ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov





GREEN STRIPE® HEAVY-DUTY THERMOSTATS

PRODUCT TYPE: 7412

Green Stripe® Heavy-Duty Thermostats are designed to withstand noise, vibration, and harshness found under the hood on heavy-duty truck, bus, tractors and heavy equipment applications.

- Heavy-gauge brass and stainless steel construction for corrosion resistance.
- Quality-controlled factory calibration assures accuracy of opening and closing, regardless of pressure changes.
- Temperature sensitive heat motor provides consistent valve response for smooth performance and precise engine cooling.
- Jiggle pins for air venting, seals and gaskets make these thermostats equivalent to the original equipment parts.

NOTE: Seal should always be changed when new thermostat is installed. **WARNING:** Cancer and Reproductive Harm – www.P65Warnings.ca.gov



GREEN STRIPE® HEAVY-DUTY THERMOSTAT SEALS

PRODUCT TYPE: 7413

Green Stripe® Heavy-Duty Thermostat Seals fit securely around the thermostat valve to prevent leakage.

- Corrosion-resistant steel construction.
- Specially constructed to assure accurate fit.
- Approved for marine applications.

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THERMOSTAT GASKETS

PRODUCT TYPE: 7413

Gates adhesive-backed Thermostat Gaskets simplify the process of aligning the thermostat gasket with the thermostat housing, ensuring a leak-free fitment of the thermostats so the job is done the right way, the first time.

- Self-adhesive backing holds thermostat in place while water outlet is being installed.
- Rubber thermostat seals also available.
- Increases installation efficiency.



RADIATOR PRESSURE CAPS & ADAPTERS

RADIATOR AND EXPANSION TANK CAPS

PRODUCT TYPE: 7410

All Gates radiator pressure caps are constructed of corrosion-resistant, heavy-gauge metal or high-quality plastic, depending on application. This ensures long service life and accurate control of pressure. Meets or exceeds environmental regulatory standards to reduce air pollution. Manufactured to meet or exceed OEM specifications in function, form and fit.

- Wide range of applications covering all makes and models.
- Engineered for precise pressure control with application-specific vent and vacuum-relief valves.
- Requires no adjustment for installation.

★ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov





RADIATOR PRESSURE CAPS & ADAPTERS - CONTINUED

SAFETY RELEASE RADIATOR CAPS

PRODUCT TYPE: 7410

Safety Release Radiator Caps have a release lever which protects against accidental burns by releasing steam through an overflow tube.

- Covers a wide range of pressures.
- Can be used for applications with or without coolant recovery systems.
- Constructed of corrosion-resistant, heavy-gauge metal.

★ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov



HEAVY-DUTY RADIATOR CAPS

PRODUCT TYPE: 7410

Gates Heavy-Duty Radiator Caps are for use on heavy-duty trucks, buses and tractors and fits applications with 3/4" deep filler necks.

- Corrosion-resistant, heavy-gauge metal to assure long service life and accurate pressure control.
- Covers a wide range of pressures.
- Designed and manufactured to OE standards.



RADIATOR CAP AND COOLING SYSTEM ANALYZER KIT

PART NUMBER: 31367

This kit contains all components needed to check common cooling system's filler neck and radiator cap configurations. Cooling system adapters and radiator cap adapters for various filler neck and radiator cap configurations also available.

- Kit includes lightweight, impact-resistant analyzer, 31425 (Replacement Spacer Kit for 1" deep filler necks) and 31413* (Cap Adapter for 3/4" deep caps).
- Comes in handy carrying case.
- Pressure release button on easy-to-read gauge allows for safe venting of system during testing.

*WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

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RADIATOR PRESSURE CAPS & ADAPTERS - CONTINUED

RADIATOR CAP/COOLING SYSTEM TESTER ADAPTERS

PRODUCT TYPE: 7410

These adapters are used with the Radiator Cap and Cooling System Tester to accommodate multiple sizes of components.

- Makes for a wider range of vehicle application testing capabilities.
- Covers a wide range of pressures.
- Covers a wide range of cap and filler neck configurations.

⚠ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

	CAP ADAPTERS					
PART NO.	DESCRIPTION	THREADED				
31379	52mm O.D.	Threaded				
31378	45mm O.D.	Cam-on				
31382	44mm O.D.	Threaded				
31384	48mm x 3mm	Threaded				
31391	50mm O.D.	Threaded				
31413	3/4" Deep Caps	Threaded				
31432	51.3mm O.D.	Threaded				
31434	59.2mm I.D.	Threaded				
31436	62mm O.D.	Threaded				
31438	51.3mm O.D.	Threaded				

CAP ADAPTER AND COOLING SYSTEM ADAPTER				
PART NO.	PART NO. DESCRIPTION			
31429	Kit for Truck 2-11/16" O.D. B Size			

COOLING SYSTEM ADAPTERS					
PART NO.	DESCRIPTION	THREADED			
31380	48mm	Threaded			
31381	57mm	Threaded			
31410	52mm X 2.5mm Buttress	Threaded			
31370	52mm x 3mm	Threaded			
31371	45mm x 3mm	Threaded			
31377	48mm x 3mm	Threaded			
31390	2 1/2" I.D.	Threaded			
31392	49.4mm x 3mm	Threaded			
31409	31mm I.D. x 10mm Deep	Cam-on			
31424	52mm x 4mm	Threaded			
31426	Adapter & Gasket Kit for B Size Filler Neck	Cam-On			
31428	32mm I.D. x 16mm Deep	Cam-On			
31431	48mm I.D.	Threaded			
31433	62.7mm O.D.	Threaded			
31435	60.5mm I.D.	Threaded			
31437	48mm I.D.	Threaded			
31439	61mm I.D.	Threaded			

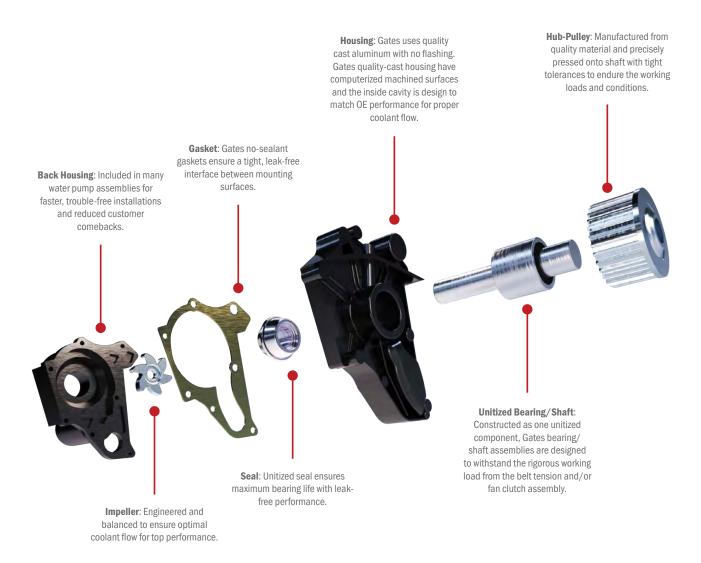
GATES.COM COOLING SYSTEMS



WATER PUMPS

GATES OFFERS A LIMITED LIFETIME WARRANTY AND STATE-OF-THE-ART MANUFACTURING PROCESS.

Gates water pumps are recognized in the industry for their durability and superior quality. Every Gates water pump is constructed with premium alloy materials and a 100% functional test of seals and bearings along with a 100% leakage test for both the casting and assembled water pump. We are committed to selling the highest quality new - never remanufactured - water pumps in the aftermarket. Our end goal is to provide our customers with worry-free operation for the life of their vehicle.



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WATER PUMPS - CONTINUED

AUTOMOTIVE WATER PUMPS

PRODUCT TYPE: 7702

Gates Water Pumps are recognized in the industry for their durability, superior quality and are manufactured for worry-free operations for your vehicle. Every Gates high-quality new water pump is constructed with premium alloy materials and a 100% functional test of seals and bearings along with a 100% leakage test for both the casting and assembled water pump. Get industry best and a guaranteed OE-quality fit, with Gates.

- Quality-assured with 100% leakage and functional tests of seals, bearings, castings and fully assembled water pump.
- Fits and performs exactly to OE specifications and requirements.
- Premium water pumps are designed to enhance the performance of the equivalent standard pump.
- Backed by a limited lifetime warranty.



ELECTRIC WATER PUMPS

PRODUCT TYPE: 7705

Gates Electric Water Pumps are manufactured for durable, worry-free operation for your vehicle; constructed using only premium materials to ensure optimum performance under intense driving conditions. The use of electric water pumps is becoming more popular among original equipment manufacturers as technology changes and OEMs look for ways to improve fuel economy and efficiency. Gates now offers electric water pumps that fit popular applications covering millions of vehicles in operation. Our pumps effectively restore the cooling and heating systems to proper operation and performance. Get the industry best and a guaranteed OE-quality fit with Gates.

- Main engine electric water pump comes with gaskets or rubber seals to provide a tight seal and eliminate leaking.
- Electromagnetic power drives the impellers, thus eliminating the need for bearings and weep holes.
- Auxiliary electric water pumps are sealed to prevent leaking.
- OE-matched construction ensures an exact fit and easy installation.
- Backed by a limited lifetime warranty.

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WATER PUMPS - CONTINUED



HEAVY-DUTY WATER PUMPS

PRODUCT TYPE: 7703

- Our heavy-duty water pump offering is designed to handle severe and rigorous conditions.
- 100% fully tested unitized bearings and seals.
- Computerized machined surfaces for proper fit and sealing.
- Gates heavy-duty water pumps are represented as a part number with an HD suffix.
- Warranty: 18 months or 150,000 miles/5,400 hours, whichever comes first.
- New pumps manufactured to ISO/TS 16949 standards.

COOLING SYSTEMS GATES,COM



FUEL SYSTEMS



HOSE & CONNECTORS

BARRICADE® FUEL INJECTION (MPI) HOSE

PRODUCT TYPE: 4219BF

Barricade® Fuel Injection Hose is a low permeation, multi-fuel compatible hose that virtually eliminates fuel vapor loss thanks to our 5-layer GreenShield® barrier technology. Works with multiple fuels (approved for use with leaded and unleaded petrol, diesel, biodiesel up to B-100, E-10, E-15, E-85, 100% methanol, ethanol and gasohol fuels).

- Multi-fuel compatibility.
- Extremely low permeation rate.
- HNBR tube with thermoplastic barrier, aramid fiber reinforcement and CPE cover.
- Oil, heat, ozone, and abrasion-resistant cover.
- Meets SAE 30R14 T2 (except for kink resistance), CARB and EPA non-road fuel lines.
- Temperature Range: -40°F to +275°F (-40°C to +135°C) continuous; up to +302°F (+150°C) intermittent.

NOTE: Do not submerse in gasoline.

PART NO. 2 FT.	PART NO. 15 FT.	PART NO. 25 FT.	PART NO. 250 FT.	I.D. (IN.)	WORKING PRESS. (PSI)
27334	27347	27339	27344	1/4	225
27335	27348	27340	27345	5/16	225
27336	27349	27341	27346	3/8	225
_	-	27342	_	1/2	225

GATES.COM FUEL SYSTEMS







BARRICADE® CARBURETION HOSE

PRODUCT TYPE: 4219BG

Advanced fuel formulations require a fuel hose that's up to the task. Barricade® Carburetion Hose provides a premium, low-permeation hose solution compatible for use with many fuel systems and fuel types. These hoses are made with Gates' patented five-layer GreenShield® technology, providing exceptional performance and fuel efficiency. This environmentally-friendly hose solution provides 5X less permeation than the nearest competitor.

- Multi-fuel compatibility.
- HNBR tube with thermoplastic barrier, aramid fiber reinforcement and CPE cover.
- Oil, heat, ozone, and abrasion-resistant cover.
- Meets SAE 30R14 T1 (except for kink resistance), CARB & EPA non-road fuel lines.
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

NOTE: Do not submerse in gasoline.

CAUTION: Do not use on pressure lines on fuel injection systems or cooling system applications. Use Barricade Fuel Injection hose for Multi-Port Injection systems.

PART NO. 2 FT.	PART NO. 25 FT.	PART NO. 250 FT.	I.D. (IN.)	WORKING PRESS. (PSI)
27302	27312	27321	3/16	50
27303	27313	27323	1/4	50
27304	27314	27324	5/16	50
27305	27315	27325	3/8	50
27306	27316	27326	1/2	35

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HOSE & CONNECTORS - CONTINUED

BARRICADE® MARINE FUEL LINE HOSE

PRODUCT TYPE: 4219

When you need aftermarket marine fuel lines that outperform OE parts, you need Gates Barricade® Marine Fuel Line Hose. U.S. Coast Guard class A1-15 Type R1 approved, CARB & EPA compliant and is compatible for multi-fuel & bio-fuel applications.

- Nitrile tube with thermoplastic barrier and modified nitrile cover.
- Synthetic fiber reinforcement.
- Crimped fittings available: GC Stem with crimp ring.
- High temperature range tolerance.
- Meets SAE J1527 and U.S. Coast Guard Class A1-15 Type R1 standards.
- Temperature Range: -4°F to 212°F (-20°C to +100°C).

PART NO. 25 FT.	I.D. (IN.)	WORKING PRESS. (PSI)
27370	1/4	35
27371	5/16	35
27372	3/8	35

GATES.COM FUEL SYSTEMS







SAFETY STRIPE® RETURN FUEL LINE/PCV/EVAPORATIVE EMISSION CONTROL HOSE

PRODUCT TYPE: 4219XL

This multi-purpose hose is 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 and gasoline blends of ethanol (E85), methanol and ethers (up to the legal limits allowed by the EPA).

- Cover resists heat, oil, ozone and weathering.
- Spiral reinforced construction.
- Tube has been upgraded to meet changes in fuel characteristics and resists heat and oil.
- Convenient 2-ft. lengths in self-service, reusable, recyclable package that can be displayed on pegboard.
- Meets requirements of SAE J30R7 and DIN 73379 (except for tolerances).
- Temperature Range: Gasoline Blends: -40°F to +257°F (-40°C to +125°C).

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.

PART NO. 2 FT.	PART NO. 25 FT.	PART NO. 250 FT.	I.D. (IN.)	WORKING PRESS. (PSI)	VACUUM RATING (IN. HG)
_	27000	27099	1/8	50	24
_	27001	27098	3/16	50	24
27027	27002	27068	1/4	50	24
27028	27003	27069	5/16	50	24
27029	27004	27070	3/8	50	24
-	27005	27071	7/16	35	24
_	27006	27019	1/2	35	10
-	27008	27020	5/8	35	10
_	27010	27021	3/4	35	10

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SUBMERSIBLE FUEL LINE HOSE

PRODUCT TYPE: 4219

Gates Submersible Fuel Line Hose is capable of handling multiple types of gasoline and fuels, including gasoline, alcohol-extended gasoline, ethanols, biodiesel or diesel fuel in fully-immersed, mobile and stationary applications. Most fuel lines are only designed to handle fuel on the interior of the hose, which can be damaged if the exterior is exposed to fuel. Engineered for fully submersible use, these hoses are excellent for use on gas tank fuel pumps.

- Comprised of an FKM tube and cover with synthetic fiber reinforcement.
- Exceeds required SAE 30R10 standard.
- Temperature Range: -40°F to +302°F (-40°C to +150°C).

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

GATES.COM FUEL SYSTEMS





FUEL LINE AND VACUUM TUBING CONNECTOR ASSORTMENT

PART NUMBER: 91174

The handy impact-resistant plastic case holds an assortment of 36 fuel line and vacuum tubing connectors. This hose connector assortment kit is for use with Gates engine hose offering.

- Provides a convenient storage container for complete line of fuel line and vacuum tubing connectors.
- Assortment contains three connector shapes: Straight, Elbow and "T".

STRAIGHT CONNECTOR			
PART NO.	O.D. (IN.)		
28561	3/32		
28562	1/8		
28563	5/32		
28564	3/16		
28601	1/4		
28600	5/16		
28602	3/8		
28603	1/2		

ELBOW CONNECTOR				
PART NO.	O.D. (IN.)			
28571	3/32			
28572	1/8			
28573	5/32			
28574	3/16			
28621	1/4			
28620	5/16			
28622	3/8			
28623	1/2			

TEE CONNECTOR			
PART NO.	O.D. (IN.)		
28581	3/32		
28582	1/8		
28583	5/32		
28584	3/16		
28631	1/4		
28630	5/16		
28632	3/8		
28633	1/2		



FUEL INJECTION HOSE CLAMPS

PRODUCT TYPE: 7400

Fuel injection clamps are designed to provide the uniform sealing pressure required of fuel injection hoses.

- Feature a solid band with rolled edges.
- Special nut and bolt design.
- Slotted hex shaped 7mm screw and a 9mm band width, with clear zinc-plated carbon steel.

PART NO.	SIZE	FITS HOSE I.D. (IN.)
32283	13	1/4
32285	15	5/16
32286	16	3/8

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FUEL CAPS

FUEL CAPS

PRODUCT TYPE: 7410

Gates Fuel Caps are made of a rugged, heavy-duty construction that meet or exceed OEM specifications. Caps fit both shallow and deep cam filler necks. Three configurations available for most popular applications: vented, non-vented and vented anti-surge.

Locking Fuel Caps

• Comes with two keys. Extremely low permeation rate.

Exterior Fuel Caps

Attractive chrome-plated finish.

⚠ **WARNING:** Cancer and Reproductive Harm – www.P65Warnings.ca.gov



HEAVY-DUTY SADDLE TANK CAPS

PRODUCT TYPE: 7410

Heavy metal construction throughout. Meets I.C.C. requirements.

- Available for side or saddle tanks.
- Locking caps come with two keys.
- Some available with chain to prevent lost caps.

★ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

PART NO.	SHELL DIAMETER (IN.)	THREAD SIZE	VENTING	TYPE	MATERIAL
31801	2-11/16	2-1/8" x 12 UN Male Thread	Non-Vented	Non-Locking	Solid Brass
31803	2-49/64	2"x 11-1/2 NPSM Female Thread	Vented	Non-Locking	Solid Brass
31804	4-7/16	Bayonet – Fits 3 Cam- Ordnance Type Filler Neck	Vented	Non-Locking	Zinc Plated Steel or Aluminum
31805	5-3/32	4-1/4" x 12 NS Male Thread	Non-Vented	Non-Locking	Solid Brass
31806	4-31/32	4-1/4" x 8 NS Male Thread	Non-Vented	Non-Locking	Solid Brass
31807	4-5/32	4" x 8 NPSM Female Thread	Non-Vented	Non-Locking	Aluminum
31821	2-1/2	2-1/8" x 12 UN Male Thread	Vented	Locking	Solid Brass
31823	2-1/2	2"x 11-1/2 NPSM Female Thread	Vented	Locking	Solid Brass
31827	4-25/32	4" x 8 NPSM Female Thread	Non-Vented	Locking	Solid Brass
31867	2-13/16	2 1/2" x 8 Female Thread	Non-Vented	Non-Locking	Solid Brass
31870	2-5/8	2 1/2" x 8 Female Thread	Non-Vented	Locking	Solid Brass

GATES.COM FUEL SYSTEMS



LUBRICATION SYSTEMS



TRANSMISSION OIL COOLER HOSE

PRODUCT TYPE: 3289, 3319

Gates Transmission Oil Cooler Hose is engineered with a synthetic rubber tube and an oil- and abrasion-resistant black CSM cover to provide a safe heat, ozone and chemical-resistant connecting line between the oil cooler and transmission.

- Easy-to-follow instructions and hose diameter indicator in each package.
- Nitrile tube, oil and abrasion-resistant black CSM cover.
- Braided synthetic fiber-reinforced cord for increased strength.
- Meets or exceeds SAE 100R6.
- Temperature Range: -40°F to +275°F (-40°C to +135°C).

PART NO. 3 FT.	PART NO. 25 FT.	PART NO. 50 FT.	I.D. (IN.)	BURST PRESS. (PSI)	WORKING PRESS. (PSI)
27056	27058	27060	5/16	1600	400
27057	27059	27061	3/8	1600	400
27065	27066	27067	1/2	1600	400



OIL FILLER CAPS

PRODUCT TYPE: 7410

Gates Oil Caps feature a top quality construction of impact-resistant plastic or heavy-gauge metal to assure long service life.

- Wide range of applications covering all makes and models.
- Manufactured to meet or exceed OEM specifications in fit, form and performance.
- Special finish resists corrosion and provides excellent protection from high under-hood temperatures.

★ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

0 LUBRICATION SYSTEMS GATES,COM



POWER STEERING SYSTEMS



OEM-TYPE POWER STEERING ASSEMBLIES & LOW-PRESSURE POWER STEERING RETURN LINE ASSEMBLIES

PRODUCT TYPE: 7741

Gates extensive field examination and testing assure the proper fit for these OEM Type assemblies. Designed for passenger cars and light trucks, they meet or exceed the OE assembly in fit, form, quality and function. Hoses and fittings are also available separately for tailor-made medium and heavy-duty truck applications.

- Comes complete with factory-installed, pre-bent zinc-dichromate plated end fittings, brackets, sensor ports, sheathing, bushings and grommets.
- Connection on uncoupled end of return line assembly is made with ordinary worm-drive clamps.
- Exceeds SAE J2050 performance requirements.
- General instructions packed with every individually-bagged assembly.



BULK POWER STEERING HOSE

PRODUCT TYPE: 3283, 7741

Bulk Power Steering Hose allows "custom fit" cutting and assembly for low pressure fluid return lines.

- Use with return line end fittings if required.
- Meets SAE J189 requirements.
- Temperature Range: -40°F to +275°F (-40°C to +135°C); +300°F (149°C) for CPE hose.

	RETURN HOSE	
PART NO.	I.D. (IN.)	LENGTH (FT.)
362860	11/32	1
362870	11/32	2
362880	11/32	3
349960	11/32	25
361960	3/8	2
361970	3/8	3
350020	3/8	4
362190*	3/8	4
349950*	3/8	25
350010	3/8	25
362200	5/8	3

	SUCTION HOSE		
PART NO.	I.D. (IN.)	LENGTH (FT.)	
362090	1/2	3	
349970	1/2	10	
350030	5/8	3-1/2	
349980	5/8	10	
362100	3/4	3	
349990	3/4	10	

GATES.COM POWER STEERING SYSTEMS

^{*}CPE Return Hose







POWER STEERING RETURN LINE END FITTINGS

PRODUCT TYPE: 7255

Gates offers a variety of power steering end fittings and adapters for building custom return line assemblies. Simply insert the barbed fitting into the hose and seal with a standard hose clamp. Furnished separately for use with Return Line Power Steering Hose.

- Zinc-dichromate plated to resist corrosion.
- Coverage includes popular inverted flare threads.



POWER STEERING REPAIR KITS

PRODUCT TYPE: 7749

Power Steering Repair Kit components are made of OEM quality materials and come with easy-to-read instructions.

Repair kits available for:

- Adjuster Plug Seal
- Power Cylinder Seal
- Control Valve Seal
- Pump Seal
- Piston Rod End Bushing

- Rack and Pinion Seal
- Pitman Shaft Seal (complete)
- Steering Gear Major Seal
- Pitman Shaft Seal (lower)



PS188 POWER STEERING HOSE

PRODUCT TYPE: 3317

Gates PS188 Power Steering Hose is recommended for power steering pressure lines.

- Synthetic rubber hose cover developed specifically to resist rugged underhood environments Type CSM.
- Use with one-piece Gates Power Crimp® power steering couplings (Refer to Gates Hydraulic catalog 431-2080 for details).
- Meets SAE J2050 Type 1 performance requirements and SAE J2050 Class B (light weight specifications).
- Temperature Range: -40°F to +302°F (-40°C to +150°C).

PART NO.	LENGTH (FT.)	WORKING PRESS. (PSI)
86049	25	1500
86050	50	1500

POWER STEERING SYSTEMS GATES.COM



AIR CONDITIONING + REFRIGERATION SYSTEMS



POLARSEAL® HOSE

PRODUCT TYPE: 3353

PolarSeal® Hose is designed for environmentally-safe liquid and gaseous R134a and R12 refrigerant applications in automotive air conditioning and industrial systems, including tractors, construction trucks, and mobile and stationary refrigeration units. Designed to minimize permeation of R134a and R12 refrigerant.

- Black Chloroprene rubber tube inside a nylon barrier, reinforced with 2-layers of spiraled polyester and an EPDM cover.
- Compatible for use with R12 and R134a refrigerants, as well as mineral oils and PAG oils.
- Meets or exceeds SAE J3062 Type C, Class II and SAE J51, Type A2 Outside Diameters.
- Temperature Range: -22°F to +257°F (-30°C to +125°C).

NOTE: Gates recommends always pairing Gates PolarSeal hose and couplings. For a complete listing of PolarSeal Hose and Couplings, see Gates.com and/or Gates Hydraulic Catalog 431-2080.



POLARSEAL® II HOSE

PRODUCT TYPE: 3353

PolarSeal® II Hose is recommended for most refrigerant blends and compressor lubricants in automotive and heavy-duty truck air conditioning systems where significant reduction in permeation and moisture ingression is desired. Low-permeation hose construction is used by more OEMs around the globe than any other refrigerant hose construction. Gates PolarSeal II derives its performance from a proprietary polyamide barrier and exceptional compounding, making it compatible with R134a, R12, and R1234yf refrigerant.

- Exceptional resistance to refrigerant permeation.
- Black Chloroprene rubber tube inside a nylon barrier, reinforced with one layer of braided polyester and a Chlorobutyl cover.
- Cover is heat, moisture and ozone resistant.
- Meets or exceeds SAE J3062 Type C, Class I.
- Compatible for use with numerous vehicular AC refrigerants and oils.
- Temperature Range: -40°F to +275°F (-40°C to +135°C).

NOTE: Gates recommends always pairing Gates PolarSeal hose and couplings. For a complete listing of PolarSeal Hose and Couplings, see Gates.com and/or Gates Hydraulic Catalog 431-2080.











POLARSEAL® AND POLARSEAL® II COUPLINGS AND ACCESSORIES

PRODUCT TYPE: 7332

Systems perform better when using parts that were designed and manufactured to work together. If you use Gates PolarSeal® Air Conditioning Hoses for your applications, use Gates PolarSeal Couplings to complete your assembly. These hose and couplings were designed for a guaranteed, long-lasting fit to give you the best, most reliable performance.

- Large range of coupling styles to ensure the right connection.
- Available in straight, 45° and 90° styles.
- O-Rings specially compounded for R134a refrigerants also available.
- PolarSeal II couplings available in pinch-clamp and machine-crimp configurations.

NOTE: For a complete listing of PolarSeal Couplings, see Gates.com and/or Gates Hydraulic Catalog 431-2080.



POLARSEAL® PORTABLE CRIMPER

PART NUMBER: 77716

Gates PolarSeal® Portable Crimper is designed for crimping air conditioning assemblies by hand or impact wrench. The PolarSeal Portable Crimper has capability to crimp PolarSeal G45 and G47 couplings and is intended for use with PolarSeal I and PolarSeal II refrigerant hose.

- Portable hand operation, easy to change over from size to size.
- Heavy-duty construction for use with air impact wrenches.
- OE-style bubble crimp.
- Quick-change dies, no tools required to change sizes.
- Lightweight for easy handling, less than six pounds.
- Capable of crimping under-hood air conditioning applications.
- Includes six color-coded die sets for crimping barrier and reduced-barrier hose.
- Accommodates complicated assembly shapes.
- Color-coded, urethane encased dies.
- Unit can be bench-mounted.
- Custom carrying case with instructions.
- No electrical requirements.
- Locator flag centers ferrule in dies.



AIR CONDITIONING + REFRIGERATION SYSTEMS - CONTINUED

POLARSEAL® II HOSE PLIERS

The PolarSeal® II pliers are used to crimp the clamps on PolarSeal II (G46 Series) couplings. The ratcheting pliers will not release until the crimp is complete, guaranteeing a proper seal. The straight jaw pliers are used when there are no obstructions to hinder crimping. The notched jaw pliers are for use in tight quarters. Use the side or the front of the pliers to complete the crimp.



Ratcheting Pliers
PART NUMBER: 77953



Straight Jaw Plier PART NUMBER: 77952



Notched Jaw Plier PART NUMBER: 77951



WINDSHIELD WASHER + VACUUM SYSTEM



WINDSHIELD WASHER AND VACUUM TUBING HOSE (NON-REINFORCED)

PRODUCT TYPE: 4040

Gates Windshield Washer and Vacuum Tubing hose is the ideal hose to replace PVC tubing used for windshield or headlight washers in cars, to connect vacuum-operated car accessories and to discharge radiator overflow or rainwater.

- Remains flexible for easy installation and cleaning.
- Resistant to the harmful conditions under the hood.
- Heat, ozone, coolant and kink resistant.
- Vacuum and kink resistant construction.
- Convenient 6-ft. lengths in self-service, reusable, recyclable package that can be displayed on pegboard.
- Meets SAE J1037, J942b specifications.
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

PART NO. 6 FT.	PART NO. 25 FT.	PART NO. 50 FT.	PART NO. 250 FT.	I.D. (IN.)	NIPPLE SIZE (IN.)	WORKING PRESS. (PSI)	VACUUM RATING (IN. HG)
27037	_	27041	_	7/64	1/8	25	24
27038	_	27042	27035	5/32	3/16	25	24
27039	_	27043	27036	7/32	1/4	25	24
27040	_	27044	_	1/4	5/16	25	24
_	27050	_	_	5/16	3/8	25	24
_	27053	_	_	3/8	7/16	25	24







WINDSHIELD WASHER AND VACUUM TUBING HOSE (REINFORCED)

PRODUCT TYPE: 4251

This reinforced Windshield Washer and Vacuum Tubing hose is ideal for windshield washers, vacuum-operated accessories, radiator overflow applications and for pressure applications that require a reinforced construction.

- Kink and collapse resistant.
- EPDM tube and cover resists splitting or cracking during stem insertion.
- Similar to SAE 20R3 Class D2.
- Temperature Range: -40°F to +257°F (-40°C to 125°C).

PART NO. 50 FT.	I.D. (IN.)	NIPPLE SIZE (IN.)	WORKING PRESS. (PSI)	VACUUM RATING (IN. HG)
27072	5/32	3/16	50	26
27073	7/32	1/4	50	26
27074	1/4	5/16	50	26



RADIATOR OVERFLOW VACUUM TUBING

PRODUCT TYPE: 4040

Gates Radiator Overflow Vacuum Tubing is an economical rubber tubing for use on radiator overflow, engine vacuum lines and windshield washer fluid lines.

- Weather-resistant EPDM tube without reinforcement.
- Use on hose bead fitting with or without hose clamps.
- Self-service packaging that can be displayed on pegboard.
- Meets SAE J1037, SAE 942, SAE J200 M4CA710 A25 B35 C32 EA14 F19.
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

PART NO. 3 FT.	I.D. (IN.)	NIPPLE SIZE (IN.)
27555	5/16	3/8
27556	3/8	7/16





WINDSHIELD WASHER + VACUUM SYSTEM - CONTINUED

SILICONE VACUUM TUBING (EGR HOSE) + DPFE

PRODUCT TYPE: 4040

Specially formulated silicone rubber vacuum tubing resists high temperatures and assures long service life in harsh environments.

- Extremely flexible and kink resistant.
- Also used to transfer air, water and coolant for exhaust gas recirculation.
- Orange color for easy identification.
- Convenient 6-ft. lengths in self-service, reusable, recyclable package that can be displayed on pegboard.
- Meets SAE J200 M2GE 705 Z1 (60-70 Shore A).
- Temperature Range: -67°F to 350°F (-55°C to 177°C).

PART NO. 6 FT. CLAMSHELL	I.D. (IN.)	NIPPLE SIZE (IN.)	MIN. BEND RADIUS (IN.)	VACUUM RATING (IN. HG)
27075	7/64	1/8	1	25
27076	5/21	3/16	1-1/2	25
27077	7/32	1/4	1-1/2	25
27078	1/4	5/16	1-1/2	25



WET ARM WIPER TUBING

PRODUCT TYPE: 4040

One size, small inside diameter Wet Arm Wiper Tubing is designed as an integral part of the windshield wiper systems.

- Same construction as windshield washer and vacuum tubing.
- Convenient 6-ft. lengths in self-service, reusable, recyclable package that can be displayed on pegboard.
- Meets SAE J1037, J942b specifications.
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

PART NO. 6 FT. CLAMSHELL	PART NO. 50 FT. REEL	I.D. (IN.)	NIPPLE SIZE (IN.)
27030	27045	3/32	1/16



AIR INTAKE/TURBOCHARGER + EMISSION SYSTEMS



AIR INTAKE/DEFROSTER

AIR INTAKE HOSE

PRODUCT TYPE: 7768

OE performance engine Air Intake Hose is designed to OE specifications in fit, form and performance. They are constructed from high quality materials for durability and maximum service life. This replacement hose effectively restores engine performance for better fuel economy, enhanced power and reduced emissions.

- OE-exact and application-specific design ensures an easy fit and installation
- Designed with high quality materials for a long service life.
- OE quality at a lower price provides excellent value.



DEFROSTER HOSE

PRODUCT TYPE: 7768

These hoses are designed for defrosters, air ducts, air intakes, under-hood applications and other low pressure, low suction applications. Approved for marine applications.

- Flexible, heat-resistant materials and helical steel wire reinforced.
- Can be easily cut and formed to desired shape and length.
- Tear, abrasion and ozone resistant.
- Complies with DOT FMVSS 302.
- Temperature Range: -40°F to +200°F (-40°C to +93°C).





GREEN STRIPE® HEAVY-DUTY AIR VENT HOSE

PRODUCT TYPE: 4663



- Smooth interior offers minimum air resistance for maximum efficiency.
- Flexible, helical wire reinforced.
- Easy to cut to size with knife and wire cutters.
- Cover is heat, oil and abrasion resistant.
- Heat and oil-resistant tube.
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

CAUTION: Not recommended for conveying liquids.

PART NO. 10 FT.	I.D. (IN.)	WORKING PRESS. (PSI)	VACUUM RATING (IN. HG)
24324	4	10	7
24325	4-1/2	10	7
24326	5	10	6
24327	5-1/2	10	6







AIR INTAKE/DEFROSTER - CONTINUED

AV SERIES AIR VENT HOSE

PRODUCT TYPE: 3177, 4663, 7736

AV Series Air Vent Hose is specifically designed for air cleaner-to-engine connections and other ducting applications.

- Available in pre-formed Hump, Straight and Curved configurations.
- Heat and oil resistant.
- Temperature Range: -40°F to +225°F (-40°C to +107°C).

STYLE	PART NO.	I.D. X LENGTH (IN.)
	23002	4 x 5
Heren	23004	5 x 6
Hump	23005	5-1/2 x 6
	23006	6 x 5
	23100	3-1/2 x 3 x 5-1/4
Dodugor Hump	23101	4 x 3 x 5-1/4
Reducer Hump	23106	6 x 5-1/2 x 6
	23107	7 x 6 x 5
	23400	4 x 22
Straight Flexible	23401	6 x 19
	23402	6-1/8 x 19
	23201*	3 x 5-1/4 x 90°
	23202	3-1/2 x 5-1/2 x 45°
	23203*	3-1/2 x 5-1/2 x 90°
	23208	5 x 5-1/4 x 45°
Molded Elbow	23209	5 x 6 x 90°
	23215*	6 x 6-1/2 x 45°
	23216*	6 x 7-1/2 x 45°
	23218*	6 x 7 x 90°
	23221	7 x 7-1/2 x 90°
Reducer Elbow	23300*	6 x 5-1/2 x 90°

^{*}Ribbed



AIR INTAKE/DEFROSTER - CONTINUED



AIR VENT HOSE

PRODUCT TYPE: 4663

Extremely flexible light-duty Air Vent Hose is used for air cleaner-to-engine connections, defroster ducts and air or heater ducting.

- Fabric-ply and double-steel helical wire reinforcement.
- Easy to cut to size with knife and wire cutters.
- Heat and oil resistant tube.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).

NOTE: For abrasive environments, use Gates Green Stripe® Heavy-Duty Air Vent Hose. **CAUTION:** Not recommended for conveying liquids.

PART NO. 10 FT.	I.D. (IN.)	WORK. PRESS. (PSI)	VACUUM RATING (IN. HG)
24300	5/8	10	5
24301	3/4	10	5
24302	7/8	10	5
24303	1	10	5
24304	1-1/4	10	5
24305	1-3/8	10	5
24306	1-1/2	10	5
24307	1-5/8	10	5
24308	1-3/4	10	5
24309	1-7/8	10	5
24310	2	5	3
24311	2-1/8	5	3
24312	2-1/4	5	3
24313	2-3/8	5	3
24314	2-1/2	5	3
24315	2-5/8	5	3
24316	2-3/4	5	3
24317	3	5	3
24318	3-1/2	5	3
24319	3-5/8	5	3
24320	4	5	3
24321	4-1/2	5	3
24322	5	5	3
24323	5-1/2	5	3







TURBOCHARGER TUBE KIT

PART NUMBER: 26100

Gates Turbocharger Tube Kit provides all the parts necessary to enable direct replacement of OE components. Manufactured to Gates' high standards for quality and durability, the included components often exceed OE parts for performance and durability.

- Kit includes: Two (2) turbocharger hoses and clamps, steel tube for intercooler-to-engine application.
- Improved design for popular Ford 2003-07 6.0L diesel engines.
- Direct replacement ensures exact fit for easy installation.
- Steel tube utilizes aluminized coating for superior corrosion resistance.



TURBOCHARGER HOSE

PRODUCT TYPE: 7734

Gates Turbocharger Hose are specially compounded for use as a short, flexible connector between the air intake and turbocharger. Can also be used for turbocharger air discharge and is approved for marine applications.

- Highly visible orange silicone color helps distinguish this hose from engine coolant hose.
- Silicone elastomer inner liner reinforced with woven fiberglass fabric.
- Resists coolants, weathering and ozone.
- Resists high temperatures and pressures.

PART NO.	I.D. (IN.)	LENGTH (IN.)	WORKING PRESS. (PSI)
26116	1	36	45
26124	1-1/2	36	40
26128	1-3/4	36	35
26132	2	36	35
26136	2-1/4	36	30
26138	2-3/8	36	30
26140	2-1/2	36	30
26142	2-5/8	36	15
26144	2-3/4	36	25
26001	3	3	25
26148	3	36	25

PART NO.	I.D. (IN.)	LENGTH (IN.)	WORKING PRESS. (PSI)
26002	3-3/8	3-1/2	15
26003	3-3/8	6	15
26154	3-3/8	36	15
26004	3-1/2	3	30
26156	3-1/2	36	20
26160	3-3/4	36	15
26162	3-7/8	36	15
26164	4	36	15
26166	4-1/2	36	15
26007	5	3-1/2	15
26008	5-1/2	3-1/2	15





MOLDED TURBOCHARGER HOSE KITS

PRODUCT TYPE: 4177



- High-quality silicone cover provides extreme temperature resistance in high-temperature under-hood conditions.
- Increased durability due to multiple layers of reinforcement, resulting in longer service life.
- Specially formulated oil-resistant Fluorelastomer liner prevents damage.
- T-bolt clamps with stainless steel band and bridge both resist corrosion and provide higher torque for optimal sealing.



MOLDED TURBOCHARGER HOSE

PRODUCT TYPE: 4177

Gates OE-Exact Molded Turbocharger Hose is designed for reliable engine connections. Our turbocharger hoses feature a multi-layered construction for maximum reinforcement, durability and strength. The high-quality silicone cover is engineered to resist oil, environmental contaminants and high-temperature under-hood conditions.

- Used for hot- and cold-side charge air cooler applications.
- Specially formulated Fluorelastomer tube liner resists oil.
- Absorbs and isolates vibrations and shock.
- Meets or exceeds OE standards in fit, form and function.





TURBOCHARGER - CONTINUED

GREEN STRIPE® RING-RETAINED TURBOCHARGER HOSE

PRODUCT TYPE: 4177

Green Stripe® Ring-Retained Turbocharger Hose is made for turbocharged Class 8 and heavy-duty diesel engines. Multi-hump design isolates vibration and absorbs rotational shock. Depending on the application, the hose is engineered with three or four rings to maintain design integrity.

- Four-layer silicone construction with aramid fiber reinforcement for maximum durability.
- Meets or exceeds OEM specifications.
- Temperature Range: -60°F to +500°F (-51°C to +260°C).

PART NO. 6 IN.	PART NO. 8 IN.	I.D. (IN.)	WORKING PRESS. (PSI)
26200	_	3	25
26201	_	3-1/2	25
26203	26204	4	25



TURBOCHARGER REDUCER HOSE

PRODUCT TYPE: 4177

Turbocharger Reducer Hose features silicone coated meta-aramid fabric with stainless steel pressure retention rings where applicable.

- Meta-aramid reinforcement provides flexibility and strength for long life in demanding high-temperature applications.
- High-quality silicone cover provides superior service life and excellent heat resistance.
- Temperature Range: up to +500°F (+260°C).

PART NO.	I.D. 1 (IN.)	I.D. 2 (IN.)	LENGTH (IN.)
26315*	2-1/2	3-1/2	5-1/4
26317	2-1/2	3-1/2	4
26318*	3	3-1/2	5
26319*	3	4	6-1/4
26320*	3-1/2	4	6
26321	4	4-1/2	6
26322*	4	4-1/2	7

^{*}Ring-retained







TURBOCHARGER COOLANT SUPPLY AND RETURN LINES

PRODUCT TYPE: 7756

Gates Turbocharger Coolant Supply and Return Lines are designed for coolant conveyance to and from the turbocharger. Their robust design prevents leaks and handles the extreme temperatures found in the turbocharger system.

- OE-Exact fit for direct replacement.
- Designed to fit like the original part for easy routing in tight engine compartments.
- Engineered improvements have been incorporated into parts with a high failure rate to improve performance and longevity.
- Mounting gaskets, seals and hardware are included where applicable.



TURBOCHARGER OIL SUPPLY AND DRAIN LINE

PRODUCT TYPE: 7756

Gates Turbocharger Oil Supply and Drain Lines are designed for oil conveyance to and from the turbocharger. Their robust design prevents leaks and handles the extreme temperatures found in the turbocharger system.

- OE-Exact fit for direct replacement.
- Designed to fit like the original part for easy routing in tight engine compartments.
- Engineered improvements have been incorporated into parts with a high failure rate to improve performance and longevity.
- Mounting gaskets, seals and hardware are included where applicable.





EMISSION SYSTEM

EMISSION CONTROL KITS

PRODUCT TYPE: 7471

OE-exact Emission Ventilation Hose Kits contain the parts needed for a complete repair in one convenient package. Kits save time by eliminating the need to source individual parts. Each component is constructed from high quality materials for durability and maximum service life. Effectively restores the emission system to proper operation and performance.

- Direct replacement ensures exact fit and easy installation.
- Resistant to fuel vapors and oil.
- Meets SAE J30R7 specifications.
- Temperature Range: -40°F to +275°F (-40°C to +135°C).



EMISSION CONTROL HOSE

PRODUCT TYPE: 7471

OE-exact Crankcase Ventilation and Emission Control hoses are constructed from high-quality materials for durability and maximum service life. This replacement hose effectively restores the emission system to desired operation and performance. Get the maximum service life out of your emission hose by using Gates' solutions.

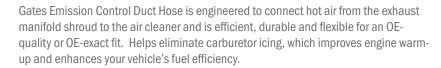
- Resistant to fuel vapors and oil.
- Direct replacement ensures exact fit and easy installation.
- Meets SAE J30R7 specifications.
- Temperature Range: -40°F to +275°F (-40°C to +135°C).





EMISSION CONTROL DUCT HOSE

PRODUCT TYPE: 7743



- Aluminum polyester construction for economy.
- Black fiberglass aluminum for greater strength and durability.
- Completely flexible and easily bent, yet retains shape after forming.
- Resists heat, cold, oil and water.
- Temperature Range: -40°F to 400°F (-40°C to +204°C).

PART NO.	I.D. (IN.)	LENGTH (IN.)
28092	3/4	36
28085	7/8	36
28088	1-1/2	36
28089	1-3/4	36
28090	2	36
28093	1-1/2	18
28094	1-3/4	18
28095	2	18

PART NO.	I.D. (MM)	LENGTH (MM)
28081	60	1000
28082	50	1000
28091	40	1000



EGR COOLANT HOSE

PRODUCT TYPE: 7665

EGR Cooler Hose is produced with reinforced silicone and O-ring quick-connect ends for an exact OE replacement.

- Made of high quality silicone to provide superior service life and excellent heat resistance.
- Meta-aramid reinforcement provides strength and heat resistance for long life in demanding applications.
- O-rings are made of fluorinated elastomer material to withstand exposure to high heat, oil and coolant.





EMISSION SYSTEM - CONTINUED

ENGINE CRANKCASE VENTILATION PRESSURE REGULATORS, PCV VALVES AND OIL SEPARATORS

PRODUCT TYPE: 7471

Our OE-exact Crankcase Ventilation Pressure Regulators, PCV Valves and Oil Separators ensure an exact fit and easy installation while effectively restoring the emission ventilation system to desired operation and performance levels. Get the maximum service life out of your emission ventilation system by using Gates' solutions.

- Direct fit replacement ensures OE-exact fit and easy installation.
- Strong, high-quality materials are resistant to oil and heat.
- Prevents oil and vapor leaks.



POWER BRAKE VACUUM HOSE

PRODUCT TYPE: 3276

This light-duty Power Brake Vacuum Hose is specially engineered for power brake applications on passenger cars and light trucks.

- Ozone-resistant EPDM cover.
- Textile reinforcement.
- Meets SAE 1403 Type L and complies with DOT FMVSS 106VL.
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

PART NO. 3 FT.	PART NO. 50 FT.	I.D. (IN.)	WORKING PRESS. (PSI)	VACUUM RATING (IN.HG)
27232	27230	11/32	85	30
27233	27231	15/32	85	30



EMISSION SYSTEM - CONTINUED



SCR ASSEMBLIES

PRODUCT TYPE: 4212

Gates SCR Assemblies are specially designed and manufactured to convey Diesel Emission Fluid (DEF). Because DEF freezes at +11°F (-12°C), the hose and couplings are electronically heated using our revolutionary carbon-fiber heating system. This patent-pending technology allows for more uniform fluid heating compared to heatedwire designs and features thermoplastic over-molds to protect electrical connections against moisture and corrosion. SCR Assemblies use Diesel Emissions Fluid (DEF) as a means of converting NOx in engine exhausts into harmless diatomic nitrogen gas and water.

- Patented carbon-fiber heating provides design flexibility and allows faster thaw times with reduced power consumption.
- Designed to match OE performance.
- Over-molded ends encapsulate electrical connections and provide weatherproof performance.
- SAE J2044 quick-connect couplings.
- Temperature range: -40°F to +257°F (-40°C to +135°C).



DIESEL EMISSION FLUID (DEF) TANK TRANSFER FILL HOSE

PRODUCT TYPE: 4217

Diesel-powered heavy duty vehicles needed a more functional solution. So we created one. Diesel Emission Fluid (DEF) Tank Transfer Fill Hose is manufactured for the specific filling functions of DEF tanks. They feature the highest quality construction to meet the demands of Diesel Emissions Fluid handling and transfer.

- Material engineered to avoid DEF contamination.
- Zinc-free peroxide EPDM tube and cover; synthetic fiber reinforcement.
- Use with Gates stainless steel braid couplings [G17 Series]. See Gates Hydraulic Catalog 431-2080 for more detailed information and http:// ecrimp.gates.com/ for crimp specifications.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).

PART NO.	I.D. (IN.)	LENGTH (FT.)	WORKING PRESS. (PSI)
DEF750025	3/4	25	350
DEF750300	3/4	300	350
DEF100025	1	25	350
DEF100300	1	300	350





EMISSION SYSTEM - CONTINUED

DIESEL EMISSION FLUID (DEF) TANK CAPS

PRODUCT TYPE: 7410

Gates Non-Locking DEF Caps prevents diesel exhaust fluid from leaking or spilling through the filler neck, while keeping dirt and debris out. The distinctive blue cap color is designed to help automotive technicians clearly identify the DEF tank filler neck, preventing frustrating and costly repairs that result from foreign fluids in the DEF tank.

- Direct replacement for an OE-equivalent fit.
- Meets or exceeds all regulatory requirements.
- Constructed from high-quality, heat-resistant materials for a long service life.
- Vehicle try-on testing and vibration testing to ensure trouble-free performance.



VAPOR CANISTER PURGE SOLENOID

PRODUCT TYPE: 7471

Vapor Canister Purge Solenoids are constructed from high-quality materials for durability and maximum service life. Replacing the purge solenoid effectively restores the Evaporative Emission Control system to proper operation and performance.

- Precisely controls the amount of fuel vapor purged from the charcoal canister.
- Resistant to fuel vapors.
- Direct replacement ensures an exact fit and easy installation.



SERVICE HOSE



AIR HOSE

SAFETY STRIPE® AIR HOSE

PRODUCT TYPE: 3215

Safety Stripe® Air Hose provides a durable, premium hose for garage and service station air impact tools.

- Bend restrictors for extended life.
- Factory assembled male couplings with 300 lb. minimum coupling pull.
- High flexibility is easy on wrists.
- High strength reinforcement.
- Perforated EPDM red cover that resists ozone and abrasion.
- Temperature Range: -40°F to +200°F (-40°C to +93°C).

PART NO. 25 FT.	PART NO. 50 FT.	I.D. (IN.)	COUPLING THREAD SIZE	WORKING PRESS. (PSI)
27485	27486	1/4	1/4-18NPT	300
27488	27489	3/8	1/4-18NPT	300
27491	27492	1/2	1/2-14NPT	300

△ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov



CHARTER® AIR HOSE

PRODUCT TYPE: 3215

Designed for multi-purpose air hose applications. Capable of impact tool use.

- Factory applied male couplings have 250 lb. minimum coupling pull.
- Perforated EPDM red cover is ozone and abrasion resistant.
- Textile reinforcement.
- Temperature Range: -40°F to +200°F (-40°C to +93°C).

PART NO. 25 FT.*	PART NO. 50 FT.*	PART NO. 300 FT.**	I.D. (IN.)	COUPLING THREAD SIZE	WORKING PRESS. (PSI)
27475	27476	28673	1/4	1/4-18NPT	200
27478	_	28674	3/8	1/4-18NPT	200
_	27479	_	3/8	1/4-14NPT	200

* **WARNING:** Cancer and Reproductive Harm – www.P65Warnings.ca.gov

**300-foot lengths are not coupled.

102 SERVICE HOSE GATES,COM





AIR HOSE - CONTINUED

HYBRID AIR HOSE

PRODUCT TYPE: 7746

Gates hybrid polymer air hose combines flexibility and strength together, making it the best hose for air service applications.

- Easy coiling after use.
- High abrasion and chemical resistance.
- Kink-resistant, even under pressure.
- Lightweight, extremely flexible construction.
- Superior bend radius.
- Zero memory, allowing it to lay-flat.
- Fittings and ferrules are 100% brass and both ends have heavy-duty PVC bend restrictors.

PART NO.	I.D. (IN.)	LENGTH (FT.)	COUPLING THREAD SIZE	WORKING PRESS. (PSI)
27568	1/4	25	1/4 NPT Male, 1/4 NPT Male	300
27569	1/4	50	1/4 NPT Male, 1/4 NPT Male	300
27570	3/8	25	1/4 NPT Male, 1/4 NPT Male	300
27571	3/8	50	1/4 NPT Male, 1/4 NPT Male	300
27580	3/8	2	1/4 Male Ball Swivel, 1/4 NPT Female	300
27582	3/8	4	1/4 Male Ball Swivel, 1/4 NPT Female	300
27583	3/8	6	1/4 Male Ball Swivel, 1/4 NPT Female	300
27572	1/2	25	1/2 NPT Male, 1/2 NPT Male	300
27573	1/2	50	1/2 NPT Male, 1/2 NPT Male	300

★ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

BULK HYBRID AIR HOSE

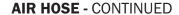
Bulk premium Hybrid Air Hose to create the custom length hose needed for any job.

PART NO.	I.D. (IN.)	LENGTH (FT.)	WORKING PRESS. (PSI)
27586	1/4	250	300
27584	3/8	250	300
27585	1/2	165	300

NOTE: Air hose fittings purchased separately.

GATES.COM SERVICE HOSE 103







AIR HOSE FITTINGS

PRODUCT TYPE: 7008

Air hose fittings for creating customized hybrid air hose lengths or repair existing damaged fittings.

- Solid brass for corrosion resistance.
- Spiral bend restrictor to increase hose durability.
- Easy installation and removal.

PART NO.	SIZE	DESCRIPTION
91071	1/4 MNPT x 3/8 Barb Size	End Fitting
91073	1/2 MNPT x 1/2 Barb Size	End Fitting
91072	3/8 x 3/8 Barb Size	Splicer

⚠ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov



AIR HOSE REEL

PRODUCT TYPE: 7746

Multi-functional retractable air hose reel for all your shop's needs.

- Fully enclosed automatic reel stops or rewinds the hose at any point.
- Gradual return feature to control rewind if the hose is accidentally released.
- Automatic guide allows hose to rewind in systematic manner.

104 SERVICE HOSE GATES, COM





AIR HOSE - CONTINUED

HEAVY-DUTY AIR HOSE REEL

PRODUCT TYPE: 7008

Heavy-Duty steel air hose reel for indoor or outdoor use.

- Steel construction with dual supporting arms for sturdiness.
- Galvanized and powder coated for durability.
- Multi-position release ratchet.

PART NO.	I.D. (IN.)	LENGTH (FT.)	DESCRIPTION	WORKING PRESS. (PSI)
91068	3/8	50	Multi-functional Retractable Air Hose Reel	300
91069	3/8	50	Heavy-Duty Steel Air Hose Reel	300
91070	1/2	50	Heavy-Duty Steel Air Hose Reel	300

⚠ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov



AIR HOSE STOP

PRODUCT TYPE: 7008

Hybrid Air Hose Stops are utilized on hybrid air hose to keep the entire hose from entering air hose reels when rewinding.

- High density polyethylene for long life.
- Adjustable to retain the preferred length of hose outside reel.
- Rubber friction pad for excellent grip on hose.

PART NO.	I.D. (IN.)	FITS HOSE SIZE (IN.)
91074	1/2	3/8
91076	5/8	1/2

GATES.COM SERVICE HOSE 105







FUEL FILL HOSE PRODUCT TYPE: 4663

Gates Fuel Fill Hose is 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 the EPA).
- Features a high-quality nitrile tube.
- Cuts easily with knife and wire cutters.
- Meets requirements of SAE 30R5.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).

NOTE: Use Gates Super Hex clamps for reliable installation.

PART NO. 3 FT.	I.D. (IN.)	WORKING PRESS. (PSI)
23924	1-1/2	20
23930	1-7/8	20
23932	2	20
23936	2-1/4	20
23940	2-1/2	20

106 SERVICE HOSE GATES,COM







FUEL FILLER NECK HOSE

PRODUCT TYPE: 4271, 4278

Gates Fuel Filler Neck hose is designed specifically for auxiliary gas tanks on recreational vehicles. It is an excellent replacement for passenger cars and trucks where a straight hose with 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 the EPA). Angled Fuel Fill Hose is designed for tank fuel fill connections where straight hose will not work.

- Smooth oil resistant modified nitrile cover, tough synthetic knit textile cord reinforcement and petroleum-resistant nitrile tube.
- Non-wire reinforced.
- Offered in bent formed configurations and straight.
- Meets SAE 30R6 or 30R7 (except oxidized gasoline test).
- Meets SAE 30R5 Wall thickness is 4.47±1.42mm (0.176±0.056 inch) excluding embedded wire area.
- Temperature Range: Gasoline Blends: -40°F to +212°F (-40°C to +100°C); Biodiesel B20: -40°F to +125°F (-40°C to +51°C).

CAUTION: Not recommended for marine gasoline applications.

STRAIGHT					
PART NO.	I.D. (IN.)	LENGTH (FT.)	WORKING PRESS. (PSI)		
23963	1-1/4	3	20		
24702	1-3/8	3	20		
24703	1-1/2	1-1/2	20		
24704	1-3/4	1-1/2	20		
24705	2	1-1/2	20		
23964	1-1/2	3	20		
23968	1-3/4	3	20		
23972	2	3	20		
23976	2-1/4	3	20		
23980	2-1/2	3	20		

	45° BEND						
PART NO.	I.D. (IN.)	LENGTH (IN.)	WORKING PRESS. (PSI)				
24710	1-1/2	15-7/8	20				
24711	1-3/4	15-7/8	20				
24712	2	15-7/8	20				
24713	2-1/4	15-7/8	20				
24714	2-1/2	15-7/8	20				

62° BEND						
PART NO.	I.D. (IN.)	LENGTH (IN.)	WORKING PRESS. (PSI)			
24721	1-1/8	17-4/9	16			

90° BEND						
PART NO.	I.D. (IN.)	LENGTH (IN.)	WORKING PRESS. (PSI)			
24715	1-1/2	15-1/8	20			
24716	1-3/4	15	20			
24717	2	14-7/8	20			
24718	2-1/4	14-5/8	20			
24719	2-1/2	14-5/8	20			

GATES.COM SERVICE HOSE 107





FUEL HOSE - CONTINUED

GAS PUMP HOSE 24B (RETRACTABLE CABLE) FOR SERVICE STATIONS AND MARINE APPLICATIONS

PRODUCT TYPE: 7730

This Gas Pump Hose is primarily used for dispensing gasoline, diesel and gasohol from stand-up or retractable cable-type pumps requiring soft wall hose and is also ideal for fuel or oil transfer applications.

- Nitrile tube and cover provide excellent resistance to oil and petroleum products.
- One (3/4" I.D.) and two (1" I.D.) plies of reinforcement with built-in static wire
- Coupled with male, NPT, brass with chrome plate couplings.
- Underwriters Laboratory Listed. Meets UL 330.

CAUTION: Not recommended for reel type dispensers.

PART NO.	I.D. (IN.)	O.D. (IN.)	LENGTH (FT.)	WORKING PRESS. (PSI)	THREAD SIZE (IN.)	MIN. BEND RADIUS (IN.)
27452	3/4	1-1/8	12	125	3/4	6
27453	3/4	1-1/8	14	125	3/4	6
27454	3/4	1-1/8	17	125	3/4	6
27460	1	1-15/32	12	125	1	8
27461	1	1-15/32	14	125	1	8
27472*	3/4	1-1/8	14	125	3/4	1

^{*}Hardwall

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FUEL HOSE - CONTINUED

MARINE FUEL FEED AND VENT HOSE - TYPE A

PRODUCT TYPE: 4219

This top quality, multi-purpose hose is specifically designed to provide flexible connections between rigid fuel distribution lines and engine and is excellent for vent lines* and emission control systems. Braided construction provides greater kink resistance and flexibility than spiral construction hose.

- Suitable for marine diesel fuel and gasohol blends of ethanol, methanol and ethers up to 10%.
- Heat and oil resistant Type A Chloroprene cover.
- Type C Nitrile tube with braided, high-tensile synthetic textile cord reinforcement.
- Meets SAE J1527 Style R1 Class 1 and USCG Type A requirements.
- Temperature Rating: -20°F to 212°F (-29°C to 100°C); Biodiesel B100: up to $+125^{\circ}F(52^{\circ}C)$.

*NOTE: Minimum I.D. for vent hose is 9/16".

PART NO. 25 FT.	PART NO. 50 FT.	PART NO. 250 FT.	I.D. (IN.)	WORKING PRESS. (PSI)
350-0145	350-0146	350-0140	1/4	40
350-0385	350-0585	350-0380	3/8	40
350-0565		350-0560	5/16	40
350-0125		350-0120	1/2	40
350-0585		350-0580	5/8	40



FUEL MASTER® DELIVERY HOSE

PRODUCT TYPE: 3221

Gates Fuel Master® Delivery Hose is recommended for transferring fuel oils, diesel fuel or commercial gasolines in applications at temperatures as low as -40°F (-40°C). For home and heavy-duty commercial service where an abrasion-resistant and nonmarking cover is required.

- Red, abrasion-resistant and non-marking Carboxylated Nitrile Type C4 cover.
- High-tensile synthetic textile reinforcement cord with a black Nitrile Type C tube.
- Compatible with biodiesel fuels up to B20.
- Tube meets ARPM (Class A) high oil-resistance standard; cover meets MSHA Flame-resistant standard.
- Hose remains flexible to -20°F (-29°C).
- Working Pressure: 200 psi.
- Temperature Range: -40°F to +180°F (-40°C to +82°C).

SERVICE HOSE **GATES.COM**







FUEL MASTER® CURB PUMP HOSE

PRODUCT TYPE: 3624

Fuel Master® Curb Pump hose is recommended for dispensing all types of commercial gasolines or other petroleum-based products, including service station pumps (curb pump). A heavy-duty hardwall hose which does not collapse in reel use or behind the nozzle in heavy-duty service.

- Black Nitrile Type C tube.
- Braided, high tensile steel wire reinforcement.
- Black CPE Type J cover (5/8" and 3/4" smooth; 1" wrapped).
- Meets Underwriters Laboratories Standard No. UL330; tube meets ARPM (Class A) High Oil-resistance standard.
- Working Pressure: 150 psi.
- Temperature Range: -40°F to +120°F (-40°C to +49°C).



FUEL MASTER® DIESEL CURB PUMP HOSE

PRODUCT TYPE: 3624

Recommended for dispensing of all types of petroleum diesel fuels and biodiesel blends from service station pumps, Gates Fuel Master® Diesel Curb Pump hose features a heavy–duty hardwall, which does not collapse in reel use or behind the nozzle in heavy–duty service.

- Black Nitrile Type C tube.
- Braided, high tensile steel wire reinforcement.
- Smooth green CPE Type J cover.
- Meets Underwriters Laboratories Standard No. UL330; tube meets ARPM (Class A) High oil-resistance standard.
- Working Pressure: 150 psi.
- Temperature Range: -40°F to +120°F (-40°C to +49°C).

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FUEL HOSE - CONTINUED

LPG VAPOR HOSE

PRODUCT TYPE: 3220

LPG Vapor hose is recommended as a flexible connector for conveying low-pressure LPG (vapor only) to many types of farm and industrial heating applications; e.g., space heaters.

- Constructed with black, Nitrile Type C tube.
- High tensile synthetic textile cord.
- Black Chloroprene Type A cover.
- Meets Underwriters Laboratories Standard No. 569 (applies to hose assemblies only).
- Working Pressure: 125 psi.
- Temperature Range: -30°F to +150°F (-34°C to +66°C).

CAUTION: This hose should not be used for liquid LPG or in UL approved appliances such as barbecue grills.

GATES.COM SERVICE HOSE







CHARTER® MULTI-USE AIR/WATER HOSE

PRODUCT TYPE: 3204

Gates Charter® Multi-Use Air/Water hose is ideal for air and water applications; engineered for heat, abrasion and ozone resistance.

- EPDM rubber tube and cover.
- Two layers of spiral synthetic reinforcement.
- Gates crimp specifications available (refer to www.ecrimp.gates.com or contact your local Gates sales associate for specification information).
- Temperature Range: -40°F to +200°F (-40°C to +93°C).

CAUTION: Do not use for oil, grease or fuel transfer.

PART NO. 50 FT.	PART NO. REEL	REEL LENGTH FT.	I.D. (IN.)	WORKING PRESS. (PSI)
28823	28800	600	1/4	200
28825	28803	600	5/16	200
28826	28806	600	3/8	200
28828	28809	600	1/2	200
28830	28812	550	5/8	200
28832	28815	500	3/4	200
28836	28818	350	1	200



MULTI-USE HOSE

PRODUCT TYPE: 3223

This Multi-Use hose is recommended for handling lower pressure air, water, agricultural spraying, oil or grease and can also be used for air spray painting.

- Nitrile tube and cover provide high oil resistance.
- One-braid polyester cord reinforcement.
- Gates crimp specifications available (refer to www.ecrimp.gates.com or contact your local Gates sales associate for specification information).
- Temperature Range: 0°F to +212°F(-18°C to +100°C).

CAUTION: Not recommended for use as small I.D. by-pass, coolant and heater hose. Do not use for fuel transfer applications.

PART NO. 50 FT.	PART NO. 300 FT.	I.D. (IN.)	WORKING PRESS. (PSI)
27402	28652	1/4	315
27404	28657	5/16	315
27406	28661	3/8	315
27410	28665	1/2	315
27414	28667	5/8	315
27418	28671	3/4	315
27420	28765	1	315

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MULTI-USE/WATER HOSE - CONTINUED

SIGNAL CALL TUBING

PRODUCT TYPE: 4040

Gates Signal Call Tubing is designed for driveway signal devices in service stations and garages.

- Long-lasting EPDM rubber tubing specially built to register under the slightest pressure.
- Meets SAE J1037, J942b specifications.
- Withstands vehicle weight at temperatures up to +150°F (+66°C).

PART NO.	I.D. (IN.)	O.D. (IN.)	LENGTH (FT.)
27539	3/8	5/8	50
28681	3/8	5/8	100
28686	3/8	5/8	300



HYBRID WATER HOSE

PRODUCT TYPE: 7746

Gates innovative water hose featuring premium hybrid polymer material for extreme flexibility.

- Easy coiling after use.
- High abrasion and chemical resistance.
- Kink-resistant, even under pressure.
- Superior bend radius.
- Zero memory, allowing it to lay-flat.
- Fittings are plated with heavy-duty nickel and have spring guard.

PART NO.	I.D. (IN.)	LENGTH (FT.)	WORKING PRESS. (PSI)
27574	5/8	50	150
27575	5/8	75	150
27577	3/4	50	150

GATES.COM SERVICE HOSE



EXHAUST SYSTEM



EXHAUST WIRE-REINFORCED (HARDWALL) HOSE

PRODUCT TYPE: 4686

Gates Exhaust Wire-Reinforced Hose is a heavy-duty fabric-reinforced hose with a helical steel wire reinforcement to meet marine water and wet exhaust hose requirements.

- May be used for engine water circulation, discharge lines, heat exchangers and wet exhaust connections.
- Features blue layline for easy identification.
- Resists heat and oil.
- Meets SAE J2006 requirements.
- Working Pressure: 100 psi for water application, 10 psi for exhaust application.

PART NO. 12.5 FT.	I.D. (IN.)
250-1184	1-1/8
250-1144	1-1/4
250-1384	1-3/8
250-1124	1-1/2
250-1584	1-5/8
250-1344	1-3/4
250-1784	1-7/8
250-2004	2
250-2184	2-1/8
250-2144	2-1/4
250-2384	2-3/8
250-2124	2-1/2
250-2584	2-5/8
250-2344	2-3/4
250-2784	2-7/8
250-3004	3
250-3124	3-1/2
250-4004	4
250-4124	4-1/2
250-5004	5
250-5124	5-1/2
250-6004	6

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MARINE MASTER® PLUS WET EXHAUST 100SD HOSE

PRODUCT TYPE: 4684

Marine Master [®] Plus Wet Exhaust Hose is suitable for general purpose applications as well as for coolant lines where tight bends are required. Wet exhaust hose with embedded helical wires and corrugated cover is recommended for tight bend radius, improved flexibility, kink and vacuum collapse resistance and fuel/oil resistance.

- Also used for coolant hose or general purpose applications.
- Synthetic fabric with built-in wire helix.
- Nitrile tube and Chloroprene corrugated cover.
- Meets SAE 20R2 Class B tube & Class C cover, SAE 20R5, SAE J2006.
- ARPM Class B oil-resistant tube; ARPM Class C oil-resistant cover.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).



MARINE MASTER® WET EXHAUST 100D HOSE

PRODUCT TYPE: 4686

Any wet exhaust engine is well-served with this versatile, durable hose. Reinforced with heavy-duty fabric and designed for use where wire support is not required, this high-performance hose solution assists operations in a variety of applications, including water circulation, discharge lines, heat exchangers and straight wet exhaust connections.

- Features EPDM tube, a synthetic fabric reinforcement, and EPDM cover.
- Blue stripe and wrapped appearance for easy identification.
- Meets SAE J2006 R1.
- Temperature Range: -40°F to +257°F (-40°C to +125°C) continuous for coolant; +100°C (+212°F) maximum for air conveyance.

GATES.COM EXHAUST SYSTEMS



FLEET ACCESSORIES



SPLASH GUARDS

Heavy-duty all rubber Splash Guards minimize splashing of rain and settled water from wheels on medium and heavy-duty trucks.

- Special half-round reinforced ridge resists tearing and cracking.
- Tough rubber and fabric-filled construction for maximum service life.
- Body is 1/4" thick and edge is 3/8" thick for extra strength.

PART NO.	LENGTH (IN.)	WIDTH (IN.)
90335	26	24
90333	30	24
90334	36	24
90332	40	24



STATIC STRAPS

Gates Static Straps are designed to discharge potentially dangerous static electricity from equipment when properly grounded, up to 100 ohm-cm (maximum).

- Specially compounded rubber conducts static electricity.
- Resists weathering, abrasion and tearing.
- Meets military specifications MILR3065C.

PART NO.	LENGTH (IN.)	WIDTH (IN.)	DEPTH (IN.)
90330	25	11/16	3/16
90331	30	11/16	3/16

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BRAKING SYSTEMS



AIR BRAKE HOSE ASSEMBLIES & COUPLINGS

RUBBER AIR BRAKE HOSE ASSEMBLIES*

PRODUCT TYPE: 7745

Factory crimped assemblies meet the rigorous demands of the fleet and heavy-duty market.

- Extremely flexible and kink resistant.
- Two-spiral construction meets SAE J1402 specifications.
- Complies with DOT FMVSS 106 requirements.
- Couplings meet SAE and DOT minimum pull-off requirements.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).

***NOTE:** Federal law requires registration with the Department of Transportation for anyone producing air brake hose assemblies with swaged or crimped fittings.

⚠ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

3/8 I.D. HOSE				
1/4 FABX (DUA	1/4 FABX W/MAB-MPT (DUAL SIDED)		3/8 FABX W/MAB-MPT (DUAL SIDED)	
PART NO.	PART NO. LENGTH (IN.)		LENGTH (IN.)	
27658	8	27630	8	
27659	12	27631	12	
27661	16	27633	16	
27663	20	27635	20	
27665	24	27637	24	
27667	28	27639	28	
27669	32	27641	32	
27671	36	27643	36	
27674	42	27646	42	
27677	48	27648	45	
27679	52	27650	48	
27681	60	27652	52	
27682	66	27654	60	
27683	72	27655	66	
27684	84	27656	72	
		27657	84	

1/2 I.D. HOSE			
3/8 FABX W/MAB-MPT (DUAL SIDED)			
PART NO.	LENGTH (IN.)		
27602	8		
27603	12		
27605	16		
27607	20		
27609	24		
27611	28		
27613	32		
27615	36		
27618	42		
27621	48		
27624	54		
27626	60		
27627	66		
27628	72		
27629	84		

3/8 I.D. HOSE			
3/8 FSX DUAL SWIVEL			
PART NO.	LENGTH (IN.)		
27685	18		
27686	24		
27687	30		
27688	36		
27689	42		
27690	48		
27691	54		
27692	60		

1/2 I.D. HOSE			
1/2 FSX DUAL SWIVEL			
PART NO.	PART NO. LENGTH (IN.)		
27693	18		
27695	24		
27696	30		
27697	36		
27698	42		
27699	48		
27700	54		
27701	60		

GATES.COM BRAKING SYSTEMS







NYLON AIR BRAKE TUBING

PRODUCT TYPE: 4327

Gates Nylon Air Brake Tubing is recommended for truck, bus and mobile air brake, and service lines where heat and battery acids are not present.

- For use with Gates DOT SureLok™ (G31 Series) or Gates DOT compression (G32 Series) couplings.
- Heat- and light-stabilized seamless extruded nylon tube.
- Nylon cover available in black (NABTA), blue (NABTB), green (NABTG), red (NABTR), yellow (NABTY) and orange (NABTO) colors. Other colors available upon request.
- For straight cuts use Small Nylon Tube Cutter (Part Number 78015) reference in the Professional-Grade Tools Section.
- Conforms to SAE J844 specifications. Meets D.O.T. FMVSS 106.
- Temperature rating: -40°F to +200°F (-40°C to +93°C).

Type A: Non-reinforced in sizes 1/8", 5/32", 3/16", and 1/4" (use for service lines only).

Type B: Reinforced with one open ply of fibrous nylon in sizes 5/16", 3/8", 1/2", 5/8" and 3/4".

NOTE: Sizes 1/8" and 5/32" are NOT recognized by D.O.T. for air brake systems. These are for service lines only.

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AIR BRAKE HOSE ASSEMBLIES & COUPLINGS - CONTINUED

SURELOK™ COUPLINGS

PRODUCT TYPE: 7250

SureLok™ Couplings are recommended for compressed air connectors on all nylon air brake tubing systems at locations other than between the chassis frame and axle or between towed and towing vehicle. These fittings are also recommended as a connector on all air-operated systems as applicable to suspension, steering, engine, transmission and auxiliary mechanisms. Simple tube connection and disconnection; press to connect and get a secure, long-lasting fit.

- Fewer component parts internally machined form-in body to secure collet.
- All collets marked with tube size.
- Ease of tube insertion in areas of restricted access with no tools required.
- Body, tube support and collet are brass construction; O-Ring consists of Buna N (Low Nitrile); thread sealant - Precoat 5.
- Tube meets DOT FMVSS 106 (mandatory requirements for inch tube fittings in U.S.A.), SAE J844 and SAE J1131 (inch tube and fittings) and DIN 74324.
- Maximum Working Pressure: 150 psi.
- Temperature Range: -40°F to +220°F (-40°C to +100°C).

NOTE: Federal law requires registration with the Department of Transportation for anyone producing air brake hose assemblies with swaged or crimped fittings.

⚠ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

GATES.COM BRAKING SYSTEMS





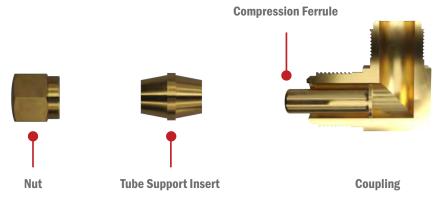
AIR BRAKE COMPRESSION COUPLINGS

PRODUCT TYPE: 7250

Compression Couplings are recommended for compressed air connectors on all nylon air brake tubing systems at locations other than between chassis frame and axle or between towed and towing vehicle. These couplings are also recommended as a connector on all air-operated systems as applicable to suspension, steering, engine, transmission and auxiliary mechanisms.

AIR BRAKE HOSE ASSEMBLIES & COUPLINGS - CONTINUED

 Easy to assemble, field serviceable coupling consisting of three component parts.



- Used with nylon tubing that meets SAE J844 or DIN 74324.
- Couplings and tubing comply to DOT FMVSS 571.106 (mandatory requirements for inch tube fittings in U.S.A.), SAE J246 and SAE J1131 (inch tube and fittings).
- Maximum Working Pressure: 150 psi.
- Temperature Range: -40°F to +200°F (-40°C to +93°C).

⚠ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov



AIR BRAKE COUPLINGS FOR RUBBER HOSE

PRODUCT TYPE: 7250

Gates Air Brake Couplings for Rubber Hose are used with AB series rubber air brake hose on assemblies for air brake systems on trucks and buses.

- Many fittings can be detached and reattached.
- Meet SAE J1402 and DOT FMVSS-106 requirements.
- 225 psi working pressure, 900 psi burst pressure.

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ASSORTMENTS & KITS

SURELOK™ AIR BRAKE ASSORTMENTS

SMALL ASSORTMENT *PART NUMBER: A33001* LARGE ASSORTMENT *PART NUMBER: A33002*

The Small SureLok™ Air Brake Assortment is a basic starter package for the jobber or fleet. SureLok™ couplings allow for repairs or replacement of J844 nylon air brake lines without the need of tools. The Large SureLok Air Brake Assortment contains SureLok™ couplings, along with brass field attachable couplings for SAE J1402 DOT All hose.

Small Assortment contains:

- 4 nylon tubing sizes
- 16 coupling configurations
- 158 individual couplings

Large Assortment contains:

- 7 nylon tubing sizes
- 51 coupling configurations
- 318 individual couplings



AIR BRAKE COMPRESSION ASSORTMENTS

SMALL ASSORTMENT PART NUMBER: A33003 LARGE ASSORTMENT PART NUMBER: A33004

These handy Compression Assortments are perfect for the jobber or fleet. The Small Compression Assortment is a basic starter package for the jobber or fleet and features brass compression couplings for J844 nylon air brake hose. The Large assortment features both brass compression couplings for J844 nylon air brake hose and brass field attachable couplings for SAE J1402 DOT.

Small Assortment contains:

- 4 sizes of hoses
- 31 coupling configurations
- 211 individual couplings

Large Assortment contains:

- 7 sizes of hoses
- 59 coupling configurations
- 330 individual couplings

NOTE: Federal law requires registration with the Department of Transportation for anyone producing air brake hose assemblies with swaged or crimped fittings.

GATES.COM BRAKING SYSTEMS



ASSORTMENTS & KITS - CONTINUED

RUBBER AIR BRAKE HOSE ASSEMBLY ASSORTMENTS

SMALL ASSORTMENT PART NUMBER: 91182 LARGE ASSORTMENT PART NUMBER: 91181

RACK ONLY PART NUMBER: 91180

Small Air Brake Assortment includes:

- 1 Air Brake Hose Rack Part No 91180
- 16 assemblies

Large Air Brake Assortment includes:

- 2 Air Brake Hose Racks Part No 91180
- 31 assemblies



BRAKE REPAIR KITS

Gates Air Brake Repair Kits include everything you need to quickly get back on the road again.

PART NO.	DESCRIPTION
90-5560	90-5560 DOT EMERGENCY REPAIR KIT
85111	AIR LINE REPAIR KIT
85112	AIR BRAKE REPAIR KIT
85113	TRANSMISSION LINE REPAIR KIT
85114	TUBING REPAIR KIT

BRAKING SYSTEMS GATES,COM

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AIR BRAKE HOSE

AB SERIES AIR BRAKE HOSE

PRODUCT TYPE: 3245

Computer-controlled manufacturing process virtually insures product uniformity for the AB Series Air Brake Hose.

- Superior EPDM rubber resists damaging effects of ozone and heat, plus harmful grease and oil common to air brake systems.
- Flexible and kink-resistant.
- Designed to accept all styles of air brake couplings, including conventional brass and plastic couplings.
- Four-spiral polyester construction meets SAE J1402 specifications; complies with DOT FMVSS 106 requirements.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).

NOTE: Federal law requires registration with the Department of Transportation for anyone producing air brake hose assemblies with swaged or crimped fittings. See Engineering and Technical Data Section of the Gates Hydraulic Catalog for compliance.

PART NO.	I.D. (IN.)	LENGTH (FT.)	BURST PRESSURE. (PSI)	WORKING PRESS. (PSI)
27240	3/8	50	1000	225
27241	1/2	50	1000	225
28760	3/8	250*	1000	225
28761	1/2	250*	1000	225

^{*} Maximum 3 pieces, shortest length 50 ft. or greater.

GATES.COM BRAKING SYSTEMS





AIR BRAKE HOSE - CONTINUED

GREEN STRIPE® HEAVY-DUTY AIR BRAKE HOSE

PRODUCT TYPE: 3245E

Green Stripe® Heavy-Duty Air Brake Hose is recommended for use in truck and bus, tractor trailer and other moving equipment and can also be used as a flexible connector between frame and axle.

- Compatible with standard air brake couplings.
- Neoprene construction is oil resistant.
- Two-braid rayon-reinforced construction with smooth cover.
- Meets SAE J1402 Type A and complies with DOT FMVSS 106.
- Temperature Range: -40°F to +100°F (-40°C to +212°C).

NOTE: Federal law requires registration with the Department of Transportation for anyone producing air brake hose assemblies with swaged or crimped fittings. See Engineering and Technical Data Section of the Gates Hydraulic Catalog for compliance.

PART NO. 50 FT.	PART NO. 250 FT.	I.D. (IN.)	MIN. BURST PRESS. (PSI)	WORKING PRESS. (PSI)
27220	28304	3/8	1000	225
27221	-	1/2	1000	225



GREEN STRIPE® VACUUM BRAKE HOSE

PRODUCT TYPE: 3245

Green Stripe® Vacuum Brake Hose is an extra heavy–duty hose designed to fit most air brake systems on trucks, trailers and other heavy equipment.

- Exceeds SAE J1403, Type H requirements.
- Complies with DOT FMVSS 106VH requirements.
- Temperature Range: -40°F to +257°F (-40°C to +125°C).

PART NO. 50 FT.	I.D. (IN.)	MIN. BURST PRESS. (PSI)	VACUUM RATING (IN.HG)
27212	5/8	800	30

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BRAKE LINE ABRASION SHIELDS

The Federal Motor Carrier Safety Administration's recently launched Compliance Safety Accountability (CSA) program requires abrasion shields on brake lines that fall below the chassis and in circumstances where chafing, kinking or other mechanical damage can occur. Gates provides high-quality products that meet these rules and specifications for brake line protection.



POLYSLEEVE™ HIGH-DENSITY POLYETHYLENE HOSE WRAP

Gates PolySleeve™ is a spiral wrap designed to protect or bundle hose for appearance and safety. PolySleeve protects hose from chaffing, rubbing, crushing, ultraviolet rays and other hazards that cause hose failures and provides an easy and economical way to protect equipment, reduce downtime, improve sighting and improve overall appearance. PolySleeve can be installed easily - even after the hose assembly or assemblies are in place. The edges are rounded, so installers won't cut their hands. Just wrap a section of Gates PolySleeve in the abrasion area or wrap it around any number of hoses for better appearance or safety.

- Guards against harsh environmental conditions for reduced downtime.
- Safe, affordable protection for hydraulic and pneumatic lines.
- Available in two colors (black and yellow); multiple sizes for individual hose or bundling.
- Made of heavy-wall, high-density polyethylene (HDPE) with round edges inside and out to avoid unintentional damage to the hose.
- Temperature Range: -40°F to +280°F (-40°C to +138°C). At -40°F it starts to become somewhat brittle; at +280°F it starts to become soft. After temperature is normalized, PolySleeve returns to its original state quickly.



PLASTIC PROTECTIVE COIL SLEEVE

Economical, lightweight plastic sleeving protects hose from water, air, gasoline and hydraulic fluids and impacts.

- Easy to install before or after assemblies are in place.
- Temperature Range: -40°F to +250°F (-40°C to +121°C).

GATES.COM BRAKING SYSTEMS



HYDRAULICS



HYDRAULIC HOSE PRODUCTS

ULTRA HIGH PRESSURE G8K SPIRAL WIRE HOSE

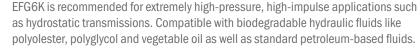
G8K hose is recommended for ultra high-pressure, high-impulse applications such as hydrostatic transmissions for use in construction, agriculture, forestry, underground or open pit mining, or other industry applications where extremely high-pressure capability is required.

- For use with G8K Couplings [G19 Series].
- Tested to industry-leading 1,000,000 impulse cycles.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +250°F (-40°C to +121°C).





EFG6K SPIRAL WIRE HOSE (also available with MEGATUFF® COVER)—SAE 100R15





- For use with GlobalSpiral™ Couplings [G20 Series], GlobalSpiral MAX Pressure Couplings [G23 and G24 Series] and Stainless Steel Spiral Couplings [G18 Series].
- Tested to industry-leading 1,000,000 impulse cycles.
- MegaTuff® hose lasts up to 300 times longer than standard hose during hose-to-hose and hose-to-metal abrasion tests per ISO 6945 and offers superior ozone and weathering resistance.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +250°F (-40°C to +121°C).







EFG6KL LOW-TEMP SPIRAL WIRE HOSE

EFG6K Low-Temp hose is recommended for extremely high pressure, low temperature hydraulic applications. Compatible with biodegradable hydraulic fluids like polyolester, polyglycol and vegetable oil as well as standard petroleum-based fluid.

- For use with GlobalSpiral™ Couplings [G20 Series].
- Tested to industry-leading 1,000,000 impulse cycles.
- Resistant to cover cracking at low temperature and tight bend radius.
- Temperature Range: -70°F to +212°F (-57°C to +100°C).



EFG5K SPIRAL WIRE HOSE (also available with XTRATUFF® OR MEGATUFF® COVER)—SAE 100R13

EFG5K hose is recommended for extremely high pressure and high impulse hydraulic applications. Compatible with biodegradable hydraulic fluids like polyolester, polyglycol and vegetable oil, as well as standard petroleum-based fluids.



- For use with GlobalSpiral™ Couplings [G20 Series], GlobalSpiral Max [G23 and G24 Series] and Stainless Steel Spiral Couplings [G18 Series].
- Tested to industry-leading 1,000,000 impulse cycles.
- XtraTuff® hose lasts up to 25 times longer than standard hose.



- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +250°F (-40°C to +121°C).









EFG5KL LOW-TEMP SPIRAL WIRE HOSE

EFG5KL Low-Temp hose is recommended for extremely high-pressure hydraulic applications to provide greater performance, flexibility, easier routing and plumbing of mobile and stationary hydraulic platforms in very low temperature environments. Compatible with biodegradable hydraulic fluids like polyolester, polyglycol and vegetable oil as well as standard petroleum-based fluid.

- For use with GlobalSpiral™ Couplings [G20 Series] and GlobalSpiral™ MAX Pressure Couplings [G23 and G24 Series].
- Resistant to cover cracking at low temperature and tight bend radius.
- Tested to industry-leading 1,000,000 impulse cycles.
- Temperature Range: -70°F to +212°F (-57°C to +100°C).



ID5K SPIRAL WIRE HOSE-ISO 18752 GRADE D -SAE 100R13

ID5K hose is recommended for extremely high pressure, high impulse hydraulic applications. Tested up to 2,300,000 impulse cycles. Ultra compact, reduced diameter design improves flexibility, lowers force-to-bend and reduces weight.

- For use with GlobalSpiral™ Couplings [G20 Series] with GSID1F-4 Ferrules.
- Tested up to 2,300,000 impulse cycles.
- Meets or exceeds all requirements of SAE100R13 and ISO 18752 Grade D.
- Temperature Range: -40°F to +250°F (-40°C to +121°C).

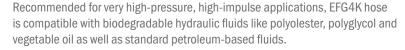






VERY HIGH PRESSURE

EFG4K SPIRAL WIRE HOSE (also available with XTRATUFF® OR MEGATUFF® COVER)—SAE 100R12



- For use with GlobalSpiral™ Couplings [G20 Series], GlobalSpiral One-Piece Couplings [G21 Series, -20 Only] and Stainless Steel Spiral Couplings [G18 Series].
- Tested to industry-leading 1,000,000 impulse cycles.
- XtraTuff® hose lasts up to 25 times longer than standard hose.
- MegaTuff® hose lasts up to 300 times longer than standard hose during hose-to-hose and hose-to-metal abrasion tests per ISO 6945 and offers superior ozone and weathering resistance.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +250°F (-40°C to +121°C).





EFG4KL LOW-TEMP SPIRAL WIRE HOSE

EFG4KL Low-Temp hose is recommended for very high-pressure hydraulic applications in low-temperature environments. Compatible with biodegradable hydraulic fluids like polyolester, polyglycol and vegetable oil as well as standard petroleum based fluid.

- For use with GlobalSpiral™ Couplings [G20 Series] and GlobalSpiral™ One-Piece Couplings [G21 Series, -20 Only].
- Cover resists cracking at low temperature and tight bend radius.
- Tested to industry-leading 1,000,000 impulse cycles.
- Temperature Range: -70°F to +212°F (-57°C to +100°C).





MXG™ 4K WIRE BRAID HOSE with XTRATUFF® PLUS COVER — SAE 100R12

Built with proprietary wire-braid process technology, MegaSys™ MXG™ 4K hose is lightweight, highly flexible, and qualified to ONE MILLION impulse cycles — it's a drop-in replacement for conventional spiral hoses. Using material science advancements, design expertise and processing technologies, we engineered a hydraulic hose that exceeds the performance of wire spiral constructions but with the lower weight and flexibility driven by Gates wire-braid technology. Compatible with biodegradable hydraulic fluids like polyolester, polyglycol and vegetable oil as well as standard petroleum based fluids.

- For use with GlobalSpiral[™] Couplings [G20 Series].
- Tested to industry-leading 1,000,000 impulse cycles.
- XtraTuff® Plus cover on MXG 4K hose comes standard and offers 25 times the abrasion resistance of standard covers, as well as superior ozone resistance.
- Compact construction with excellent flexibility and lower force-to-bend for faster and more ergonomic installation (force-to-bend is 40% better and OD is 9% smaller).
- 30% lighter weight for easier handling and installation.
- Exceeds all criteria of SAE 100R19 and ISO 18752 280DC; exceeds performance criteria of SAE 100R12, EN 856 R12, ISO 3862 R12 (Size -16 also exceeds EN 856 4SP performance requirements).
- MXG4K-XTP passes SAE J1754 Class A cool-down requirements with GlobalSpiral couplings and meets Flame Resistant Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +250°F (-40°C to +121°C).







EFG3K SPIRAL WIRE HOSE (also available with MEGATUFF® COVER) — SAE 100R12



Recommended for very high-pressure, high-impulse hydraulic applications, EFG3K is compatible with biodegradable hydraulic fluids like polyolester, polyglycol and vegetable oil as well as standard petroleum-based fluids.

- For use with GlobalSpiral™ Couplings [G20 Series], GlobalSpiral™ One-Piece Couplings [G21 Series, -20 Only], GlobalSpiral™ Plus Couplings [G22 Series], Stainless Steel Braid Couplings [G17 Series] and Stainless Steel Spiral Couplings [G18 Series].
- Tested to industry-leading 1,000,000 impulse cycles.
- MegaTuff® hose lasts up to 300 times longer than standard hose during hose-to-hose and hose-to-metal abrasion tests per ISO 6945 and offers superior ozone and weathering resistance.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +250°F (-40°C to +121°C).



HIGH PRESSURE GLOBAL M6K MEGA6000™ WIRE BRAID HOSE

Global M6K is recommended for high-pressure hydraulic applications. Compatible with biodegradable hydraulic fluids like polyolester, polyglycols and vegetable oils as well as petroleum-based fluids.

- For use with MegaCrimp® Couplings [G25 Series] and Stainless Steel Braid Couplings [G17 Series].
- Provides bend radius up to 1/3 of the SAE specification and greater flexibility for easier routing.
- Tested to industry-leading 600,000 impulse cycles.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).







GLOBAL M5K MEGA5000™ WIRE BRAID HOSE (also available with XTRATUFF® OR MEGATUFF® COVER)

Easy to route and install in extremely tight areas, Global M5K hose is recommended for high-pressure hydraulic applications. This hose is compatible with biodegradable hydraulic fluids like polyolester, polyglycols and vegetable oils as well as petroleumbased fluids.

- For use with GlobalSpiral™ Couplings [G20Series], MegaCrimp® Couplings [G25 Series] and Stainless Steel Braid Couplings [G17 Series].
- Tested to industry-leading 600,000 impulse cycles.
- XtraTuff® hose lasts up to 25 times longer than standard hose.
- MegaTuff® hose lasts up to 300 times longer than standard hose during hose-to-hose and hose-to-metal abrasion tests per ISO 6945 and offers superior ozone and weathering resistance.
- Provides bend radius up to 1/3 of the SAE specification and greater flexibility for easier routing.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).



S.// M4K

GLOBAL M4K MEGA4000™ WIRE BRAID HOSE (also available with XTRATUFF® OR MEGATUFF® COVER)—SAE 100R19

Global M4K hose is recommended for high-pressure hydraulic applications. Easy to route and install in extremely tight areas. Compatible with biodegradable hydraulic fluids like polyolester, polyglycols and vegetable oils as well as petroleum-based fluids.



- For use with GlobalSpiral[™] Couplings [G20 Series], MegaCrimp[®] Couplings [G25 Series] or Stainless Steel Braid Couplings [G17 Series].
- Provides bend radius up to 1/3 of the SAE specification and greater flexibility for easier routing.
- Tested to industry-leading 600,000 impulse cycles.
- XtraTuff® hose lasts up to 25 times longer than standard hose.
- MegaTuff® hose lasts up to 300 times longer than standard hose during hose-to-hose and hose-to-metal abrasion tests per ISO 6945 and offers superior ozone and weathering resistance.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).









GLOBAL M4KH MEGA4000™ HIGH-TEMP WIRE BRAID HOSE (also available with MEGATUFF® COVER)—SAE 100R19

Global M4KH High-Temp hose is recommended for high-pressure hydraulic applications at elevated temperatures. This hose allows for tighter minimum bend radius, increased working pressure and improved impulse cycles than industry standards. Compatible with biodegradable hydraulic fluids like polyolester, polyglycols and vegetable oils as well as petroleum-based fluids.

- For use with GlobalSpiral™ Couplings [G20 Series] and MegaCrimp® Couplings [G25 Series].
- Provides bend radius up to 1/3 of the SAE specification and greater flexibility for easier routing.
- Tested to industry-leading 600,000 impulse cycles.
- MegaTuff® hose lasts up to 300 times longer than standard hose during hose-to-hose and hose-to-metal abrasion tests per ISO 6945 and offers superior ozone and weathering resistance.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +250°F (-40°C to +121°C).



GLOBAL M4KL MEGA4000™ POLARFLEX® LOW-TEMP WIRE BRAID HOSE—SAE 100R19

Global M4KL Mega400™ PolarFlex® Low-Temp hose is recommended for extremely low temperature high-pressure hydraulic oil line applications. Compatible with biodegradable hydraulic fluids like polyolester, polyglycols and vegetable oils as well as petroleum-based fluids.

- For use with GlobalSpiral™ Couplings [G20 Series], MegaCrimp® Couplings [G25 Series], Stainless Steel Braid Couplings [G17 Series] and Stainless Steel Spiral Couplings [G18 Series].
- Resistant to cover cracking at low temperature and tight bend radius.
- Provides bend radius up to 1/3 of the SAE specification and greater flexibility for easier routing.
- Tested to industry-leading 600,000 impulse cycles.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -70°F to +212°F (-57°C to +100°C).







M-XP™ MILLION IMPULSE XTRA™ PERFORMANCE WIRE BRAID HOSE

M-XP™ Million Impulse hose is designed for high-pressure, high impulse life hydraulic applications.

- For use with GlobalSpiral™ Couplings [G20 Series] and MegaCrimp® Couplings [G25 Series].
- Provides bend radius up to 1/3 of the SAE specification and greater flexibility for easier routing.
- Tested to industry-leading 1,000,000 impulse cycles.
- 4000 psi working pressure for all sizes.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).



GLOBAL M3K MEGA3000® WIRE BRAID HOSE (also available with XTRATUFF® OR MEGATUFF® COVER)—SAE 100R17

Recommended for high-pressure hydraulic oil line applications, M3K hose is easy to route and install in extremely tight areas. M3K hose has smaller exterior dimensions and significantly tighter bend radius than other SAE 100R1 and 100R2 hose and is compatible with biodegradable hydraulic fluids like polyolester, polyglycols and vegetable oils as well as petroleum-based fluids.



For use with GlobalSpiral™ Couplings [G20 Series], MegaCrimp® Couplings [G25 Series], Power Crimp® Couplings (-3 Only) and Stainless Steel Braid Couplings [G17 Series].



- Tested to industry-leading 600,000 impulse cycles.
- XtraTuff® hose lasts up to 25 times longer than standard hose.
- MegaTuff® hose lasts up to 300 times longer than standard hose during hose-to-hose and hose-to-metal abrasion tests per ISO 6945 and offers superior ozone and weathering resistance.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Rated at 3250 psi working pressure.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).









GLOBAL M3KH MEGA3000™ HIGH-TEMP WIRE BRAID HOSE (also available with MEGATUFF® COVER)—SAE 100R17

Recommended for high-pressure hydraulic oil line applications Global M3KH hose is easy to route and install in extremely tight areas. M3KH hose has smaller exterior dimensions and significantly tighter bend radius than other SAE 100R1 and 100R2 hose. Compatible with biodegradable hydraulic fluids like polyolester, polyglycols and vegetable oils as well as petroleum-based fluids.

- For use with GlobalSpiral™ Couplings [G20 Series] and MegaCrimp® Couplings [G25 Series].
- Rated at 3250 psi working pressure.
- Provides bend radius up to 1/3 of the SAE specification and greater flexibility for easier routing.
- Tested to industry-leading 600,000 impulse cycles.
- MegaTuff® hose lasts up to 300 times longer than standard hose during hose-to-hose and hose-to-metal abrasion tests per ISO 6945 and offers superior ozone and weathering resistance.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +250°F (-40°C to +121°C).



MXT™ MEGASYS® WIRE BRAID HOSE—SAE 100R16

MXTTM is recommended for high-pressure hydraulic oil lines and designed to address our customers' evolving application challenges. Using materials science and process innovation, combined with a patent-pending construction, Gates now offers a hydraulic solution that is lighter, stronger, and more flexible.

- For use with MegaCrimp® Couplings [G25 Series].
- Tested to industry-leading 600,000 impulse cycles.
- More flexible with up to 40% lower force-to-bend for faster and more ergonomic installation.
- Provides bend radius up to 1/3 of the SAE specification and greater flexibility for easier routing.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).







M2T® MEGAFLEX® 2-WIRE BRAID HOSE (also available with XTRATUFF® OR MEGATUFF® COVER)—SAE 100R16

M2T® hose is recommended for high-pressure hydraulic oil line applications. It has smaller exterior dimensions and significantly tighter bend radius than competitive R16 hoses, making it easy to route and install in tight areas. M2T hose is compatible with biodegradable hydraulic fluids like polyolester, polyglycols and vegetable oils as well as petroleum-based fluids.

- For use with GlobalSpiral™ Couplings [G20 Series], GlobalSpiral™ Plus Couplings [G22 Series], MegaCrimp® Couplings [G25 Series], Stainless Steel Braid Couplings [G17 Series] and Stainless Steel Spiral Couplings [G18 Series].
- Provides bend radius up to 1/3 of the SAE specification and greater flexibility for easier routing.
- Tested to industry-leading 600,000 impulse cycles.
- XtraTuff® hose lasts up to 25 times longer than standard hose.
- MegaTuff® hose lasts up to 300 times longer than standard hose during hose-to-hose and hose-to-metal abrasion tests per ISO 6945 and offers superior ozone and weathering resistance.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).





CM2TDL MEGAFLEX® CONNECTED DUAL-LINE 2-WIRE BRAID XTRATUFF® COVER—SAE 100R16

CM2T Dual-Line hose is recommended for high pressure and return lines such as boom arm and forklift applications, as well as high abrasive high-pressure hydraulic oil lines that are joined together for easier plumbing and routing. Smaller exterior dimensions and significantly tighter bend radius. CM2T Dual Line hose is compatible with biodegradable hydraulic fluids like polyolester, polyglycols and vegetable oils as well as petroleum-based fluids. CM2TDL-XTF hose has smaller exterior dimensions and significantly tighter bend radius and lasts up to 25 times longer than standard hose during hose-to-hose and hose-to-metal abrasion tests per ISO 6945.

- For use with GlobalSpiral™ Couplings [G20 Series] and MegaCrimp® Couplings [G25 Series].
- No need to use clamps as the two lines are vulcanized together to form one single unit.
- Provides bend radius up to 1/3 of the SAE specification and greater flexibility for easier routing.
- Tested to industry-leading 600,000 impulse cycles.
- XtraTuff® hose lasts up to 25 times longer than standard hose.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).





GLOBAL G2H HIGH-TEMP 2-WIRE BRAID HOSE (also available with MEGATUFF® COVER) — SAE 100R2 TYPE AT

 $\ensuremath{\mathsf{G2H}}$ hose is recommended for high-temperature, high-pressure hydraulic oil line applications.

- For use with Field Attachable Type T Couplings [G28 Series], GlobalSpiral™ Couplings [-20 G20 Series], GlobalSpiral Plus Couplings [G22 Series], MegaCrimp® Couplings [G25 Series] and Stainless Steel Braid Couplings [G17 Series].
- Tested to industry-standard 600,000 impulse cycles.
- MegaTuff® hose lasts up to 300 times longer than standard hose during hose-to-hose and hose-to-metal abrasion tests per ISO 6945 and offers superior ozone and weathering resistance.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +275°F (-40°C to +135°C) constant; +300°F (+149°C) intermittent (up to 10% of operating time).





GLOBAL G2XH 2-WIRE BRAID XTREME® HEAT HOSE—SAE 100R2 TYPE AT

Global G2XH hose is recommended for extremely high-temperature, high-pressure hydraulic applications where pressure or temperature requirements exceed SAE 100R2, ISO 1436 2SN R2 and EN 853 2SN or where resistance to either petroleumbase or phosphate ester fluids is required. Compatible with biodegradable hydraulic fluids like polyolester, polyglycols and vegetable oils as well as petroleum-based fluids and phosphate esters.

- For use with GlobalSpiral™ Couplings [G20 Series], GlobalSpiral Plus Couplings [G22 Series], MegaCrimp® Couplings [G25 Series] and Stainless Steel Braid Couplings [G17 Series].
- Blue, oil- and abrasion-resistant, thin synthetic rubber cover indicates higher temperature hose.
- Tested to industry-standard 600,000 impulse cycles.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: Petroleum-Based Fluids: -40°F to +300°F (-40°C to +149°C); Phosphate Esters Fluids: as recommended by the fluid manufacturers, but within a range of -40°F to +212°F (-40°C to 100°C).



GLOBAL G2L POLARFLEX® WIRE BRAID HOSE—SAE 100R2 TYPE AT

G2L PolarFlex® is recommended for extremely low temperature high-pressure hydraulic oil line applications and is compatible with biodegradable hydraulic fluids like polyolester, polyglycols and vegetable oils as well as petroleum-based fluids.

- For use with Field Attachable Type T Couplings [G28 Series], GlobalSpiral™
 Couplings [G20 Series], GlobalSpiral Plus Couplings [G22 Series] and
 MegaCrimp® Couplings [G25 Series].
- Tested to industry-standard 600,000 impulse cycles.
- Unique low temperature tube for extended service life at extremely low temperatures.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -70°F to +212°F (-57°C to +100°C).





HYDRAULIC HOSE PRODUCTS - MEDIUM PRESSURE

GLOBAL G1 1-WIRE BRAID HOSE—SAE 100R1 TYPE AT

Global G1 hose is recommended for medium-pressure hydraulic lines and is compatible with biodegradable hydraulic fluids like polyolester, polyglycols and vegetable oils as well as petroleum-based fluids.

- For use with Field Attachable Type T Couplings [G27 Series], GlobalSpiral™ Couplings [G20 Series], GlobalSpiral Plus Couplings [G22 Series], MegaCrimp® Couplings [G25 Series], Power Crimp® Couplings (-3 Only), Power Crimp® Grease Couplings and Stainless Steel Braid Couplings [G17 Series].
- Tested to industry-standard 450,000 impulse cycles.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).



GLOBAL G1H 1-WIRE BRAID HOSE—HIGH-TEMP—SAE 100R1 TYPE AT

Global G1H hose is recommended for high-temperature, medium-pressure hydraulic oil line applications. Compatible with biodegradable hydraulic fluids like polyolester, polyglycols and vegetable oils as well as petroleum-based fluids and phosphate esters.

- For use with GlobalSpiral™ Couplings [G20 Series], GlobalSpiral Plus Couplings [G22 Series], MegaCrimp® Couplings [G25 Series] and Stainless Steel Braid Couplings [G17 Series].
- Provides tighter than standard minimum bend radius and greater flexibility for easier plumbing routing.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: Hydraulic Oil Lines: -40°F to +275°F (-40°C to +135°C) constant; +300°F (+149°C) intermittent (up to 10% of operating time).







TH7 HYDRAULIC HOSE—SAE 100R7

TH7 Thermoplastic hydraulic hose is recommended for petroleum, water-base and synthetic hydraulic fluids. Applications include power and telephone mobile equipment (cherry pickers), lubrication lines, blowout preventer control lines, farm and construction machinery and high-pressure hydraulic lift applications, especially material handling equipment with mast and pulley systems like forklifts, aerial lifting, hydraulic boom cranes and many others.

- For use with MegaCrimp® Couplings [G25 Series] and Swage PCTS Couplings [G51 Series].
- 100% seamless nylon tube that easily handles a broad range of hydraulic fluids, including phosphate esters and water glycol.
- Temperature Range: Petroleum and Synthetic Oils: -65°F to +200°F (-54°C to +93°C) constant; Water, Water/Oil Emulsions, Water Glycol: up to +158°F (+70°C).



TH7NC NON-CONDUCTIVE HYDRAULIC HOSE—SAE 100R7

TH7NC Non-Conductive hydraulic hose is recommended for petroleum and synthetic hydraulic fluids. Applications include power and telephone mobile equipment (cherry pickers), lubrication lines, blowout preventer control lines, hydraulic lifts and farm and construction machinery.

- For use with MegaCrimp® Couplings [G25 Series] and Swage PCTS Couplings [G51 Series].
- Orange color TH7NC meets SAE 100R7 non-conductivity requirements and meets or exceeds performance requirements of SAE 100R7 with a significantly tighter bend radius.
- Meets SAE 100R7 Electrical Conductivity Test. Maximum leakage should not exceed 50 microamperes when subjected to 75 kV/Ft. for five minutes.
- Meets ANSI A92.2 for vehicle mounted aerial devices.
- Temperature Range: Petroleum and Synthetic Oils: -65°F to +200° F (-54°C to +93°C) constant; Water, Water/Oil Emulsions, Water Glycol: up to +158°F (+70°C).





HYDRAULIC HOSE PRODUCTS THERMOPLASTIC - CONTINUED

TH7DL DUAL LINE HYDRAULIC HOSE—SAE 100R7

Recommended for petroleum, water-base and synthetic hydraulic fluids, TH7DL applications include power and telephone mobile equipment (cherry pickers), lubrication lines, blowout preventer control lines, hydraulic lifts and farm and construction machinery.

- For use with MegaCrimp[®] Couplings [G25 Series].
- TH7DL hose meets or exceeds performance requirements of SAE 100R7 with significantly tighter bend radius.
- Temperature Range: Petroleum and Synthetic Oils: -65°F to +200°F (-54°C to +93°C) constant; Water, Water/Oil Emulsions, Water Glycol: up to +158°F (+70°C).



TH7NCDL NON-CONDUCTIVE DUAL LINE HYDRAULIC HOSE—SAE 100R7

TH7NCDL Non-Conductive Dual Line hydraulic hose is recommended for petroleum, water-base and synthetic hydraulic fluids. Applications include power and telephone mobile equipment (cherry pickers), lubrication lines, blowout preventer control lines, hydraulic lifts and farm and construction machinery. Orange color TH7NCDL meets SAE 100R7 non-conductivity requirements and meets or exceeds performance requirements of SAE 100R7 with significantly tighter bend radius.

- For use with MegaCrimp® Couplings [G25 Series].
- Orange color TH7NCDL meets SAE 100R7 non-conductivity requirements and meets or exceeds performance requirements of SAE 100R7 with significantly tighter bend radius.
- Meets SAE 100R7 Electrical Conductivity Test; maximum leakage should not exceed 50 microamperes when subjected to 75 kV/Ft. for five minutes.
- Meets ANSI A92.2 for vehicle mounted aerial devices.
- Temperature Range: Petroleum and Synthetic Oils: -65°F to +200°F (-54°C to +93°C) constant; Water, Water/Oil Emulsions, Water Glycol: up to +158°F (+70°C).







TH7S HYDRAULIC HOSE—SAE 100R7

Recommended for petroleum and synthetic hydraulic fluids, TH7S hose is used on applications that include power and mobile equipment, lifts and construction machinery.

- For use with MegaCrimp® Couplings [G25 Series].
- TH7S hose meets or exceeds performance requirements of SAE 100R7 with a significantly tighter bend radius.
- Temperature Range: Petroleum and Synthetic Oils: -65°F to +200°F (-54°C to +93°C) constant.



TH7SNC NON-CONDUCTIVE HYDRAULIC HOSE—SAE 100R7

TH7SNC Non-Conductive hose is recommended for petroleum and synthetic hydraulic fluids on applications that include power and mobile equipment, lifts and construction machinery. Orange color meets SAE 100R7 non-conductivity requirements and meets or exceeds performance requirements of SAE 100R7 with significantly tighter bend radius.

- For use with MegaCrimp® Couplings [G25 Series].
- Orange color TH7SNC meets SAE 100R7 non-conductivity requirements and meets or exceeds performance requirements of SAE 100R7 with a significantly tighter bend radius.
- Meets SAE 100R7 Electrical Conductivity Test; maximum leakage should not exceed 50 microamperes when subjected to 75 kV/Ft. for five minutes.
- Meets ANSI A92.2 for vehicle mounted aerial devices.
- Temperature Range: Petroleum and Synthetic Oils: -65°F to +200°F (-54°C to +93°C) constant.







TH8 HYDRAULIC HOSE—SAE 100R8

TH8 hydraulic hose is recommended for use with petroleum, water-base and synthetic hydraulic fluids. Applications include power and telephone mobile equipment (cherry pickers), lubrication lines, blowout preventer control lines, hydraulic lifts, farm and construction machinery as well as high-pressure hydraulic applications, especially material handling equipment with mast and pulley systems like forklifts, aerial lifting, hydraulic boom cranes and many others.

- For use with MegaCrimp® Couplings [G25 Series].
- Meets or exceeds performance requirements of SAE 100R8 with a significantly tighter bend radius.
- Temperature Range: Petroleum and Synthetic Oils: -65°F to +200°F (-54°C to +93°C) constant; Water, Water/Oil Emulsions, Water Glycol: up to +158°F (+70°C).



TH8NC NON-CONDUCTIVE HYDRAULIC HOSE—SAE 100R8

Recommended for use with petroleum, water base and synthetic hydraulic fluids. Applications include power and telephone mobile equipment (cherry pickers), lubrication lines, blowout preventer control lines, hydraulic lifts and farm and construction machinery. Orange color TH8SNC meets SAE 100R8 non-conductivity requirements and meets or exceeds performance requirements of SAE 100R8 with a significantly tighter bend radius.

- For use with MegaCrimp® Couplings [G25 Series].
- Orange color TH8SNC meets SAE 100R8 non-conductivity requirements and meets or exceeds performance requirements of SAE 100R8 with a significantly tighter bend radius.
- Meets SAE 100R8 Electrical Conductivity Test; maximum leakage should not exceed 50 microamperes when subjected to 75 kV/Ft. for five minutes.
- Temperature Range: Petroleum and Synthetic Oils: -65°F to +200°F (-54°C to +93°C) constant; Water, Water/Oil Emulsions, Water Glycol: up to +158°F (+70°C).







TH18 CONSTANT PRESSURE HYDRAULIC HOSE—SAE 100R18

TH18 hose is suitable for petroleum or synthetic-based hydraulic fluids in hydraulic systems. This hose is ideal for industrial and agricultural applications exposed to low temperatures or cyclic and quick temperature changes. Remains highly flexible in cold weather conditions and is resistant to hydraulic fluids, high temperatures, aging and weathering.

- For use with MegaCrimp® Couplings [G25 Series].
- Meets or exceeds performance requirements of SAE 100R18 with a significantly tighter bend radius.
- Temperature Range: Petroleum and Synthetic Oils: -67°F to +212°F (-55°C to +100°C); Water-based Fluids: up to +158°F (+70°C).



TH18NC CONSTANT PRESSURE NON-CONDUCTIVE HYDRAULIC HOSE—SAE 100R18

TH18NC Constant Pressure Non-Conductive hose is suitable for petroleum or synthetic-based hydraulic fluids in hydraulic systems and for use in high-voltage applications. Remains highly flexible in cold weather conditions and is resistant to hydraulic fluids, high temperatures, aging and weathering. Orange color TH18NC meets SAE 100R18 non-conductivity requirements and meets or exceeds performance requirements of SAE 100R18 with a significantly tighter bend radius.

- For use with MegaCrimp® Couplings [G25 Series].
- Meets or exceeds performance requirements of SAE 100R18 with a significantly tighter bend radius.
- Orange color TH18NC meets SAE 100R18 non-conductivity requirements and meets or exceeds performance requirements of SAE 100R18 with a significantly tighter bend radius.
- Meets SAE 100R18 Electrical Conductivity Test; maximum leakage should not exceed 50 microamperes when subjected to 75 kV/Ft. for five minutes.
- Temperature Range: Petroleum and Synthetic Oils: -67°F to +212°F
 (-55°C to +100°C) constant; Water-based Fluids: up to +158°F (+70°C).







G3H HIGH-TEMP 2-FIBER BRAID HOSE—SAE 100R3

G3H High-Temp hose is recommended for hydraulic oil lines, anti-freeze solutions or water.

- For use with GLX® Couplings [G44 Series] and MegaCrimp® Couplings [G25 Series].
- Meets or exceeds requirements of SAE 100R3.
- Temperature Range: Hydraulic Oil Lines: -40°F to +275°F (-40°C to +135°C) constant; +300°F (+149°C) intermittent (up to 10% of operating time).



GTH HIGH-TEMP 1-FIBER BRAID HOSE—SAE 100R6

Recommended for high-temperature, low pressure hydraulic oil lines, heavy-duty transmission oil cooler lines and glycol anti-freeze solutions.

- For use with MegaCrimp® Couplings [G25 Series] and Power Crimp® Couplings.
- Meets or exceeds requirements of SAE 100R6.
- Temperature Range: Hydraulic Oil Lines: -40°F to +275°F (-40°C to +135°C) constant; +300°F (+149°C) intermittent (up to 10% of operating time).



GTHX HIGH-TEMP FIBER SPIRAL HOSE—SAE 100R6

GTHX High-Temp hose is recommended for hydraulic oil lines, heavy-duty transmission oil cooler lines and glyco anti-freeze solutions.

- For use with MegaCrimp® Couplings [G25 Series].
- Meets or exceeds requirements of SAE 100R6.
- Temperature Range: Hydraulic Oil Lines: -40°F to +275°F (-40°C to +135°C).







M500 WIRE BRAID HOSE (also available with XTRATUFF® OR MEGATUFF® COVER)

HYDRAULIC HOSE PRODUCTS TRANSFER - CONTINUED

M500 hose is recommended for pilot lines, grease lines and pressure return lines with 500 psi or less pressure applications.

- For use with GlobalSpiral™ Couplings [G20 Series] and MegaCrimp® Couplings [G25 Series].
- XtraTuff® hose lasts up to 25 times longer than standard hose.
- MegaTuff® hose lasts up to 300 times longer than standard hose during hose-to-hose and hose-to-metal abrasion tests per ISO 6945 and offers superior ozone and weathering resistance.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).





RETURN

MULTI MASTER® GMV MEGAFLEX® RETURN LINE AND SUCTION HOSE—SAE 100R4

One hose engineered for four industrial applications: fuel, hydraulic return, coolant and water, Gates Multi Master® GMV™ MegaFlex® hose delivers superior performance and ultimate flexibility. Recommended for suction and discharge applications where excellent flexibility is required and applications requiring maximum resistance to air, water, petroleum, and lubricating oils.

- For use with GL Couplings [G43 Series], GlobalSpiral™ Plus Couplings [G22 Series] and MegaCrimp® Couplings [G25 Series].
- Easy installation with 1:1 bend radius which saves time and is kink-free.
- Industry-leading flexibility solves complex routings through tight spaces using less hose.
- Uses a helical spiral-wire to prevent hose collapse under suction.
- Meets SAE 100R4, J30R5, and J20R5 (except tube dimensions).
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +275°F (-40°C to +135°C).

NOTE: Do not convey fuels over +120°F (+49°C); coolant applications (20R5) max temperature is +212°F (+100°C).







GMV GLOBAL MEGAVAC® RETURN LINE AND SUCTION HOSE-SAE 100R4

GMV Return Line and Suction Hose is recommended for petroleum and water base hydraulic fluids in suction lines or in low-pressure return lines.

- For use with GL Couplings [G43 Series] and MegaCrimp® Couplings [G25 Series] (Use clamp over beaded nipple).
- Uses a helical spiral-wire to prevent hose collapse under suction.
 - Meets or exceeds requirements of SAE 100R4 and uses half the bend radius of SAE 100R4.
- Meets marine ABS and DNV-GL with use of HeatGuard[®] high temp sleeve and meets AS and USCG agency specifications.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +275°F (-40°C to +135°C).



RLA 1-FIBER BRAID RETURN LINE AND LOW PRESSURE HOSE

RLA hose is recommended for low-pressure hydraulic oil return lines for general purpose water, glycol antifreeze solutions, conveying diesel fuel, gasoline or air.

- For use with GLX® Couplings [G44 Series], MegaCrimp® Couplings [G25 Series] and Power Crimp® Couplings (-3 Only).
- Meets SAE 30R2 performance requirements of both Type 1 and Type 2 for fuel and B20 constant contact up to 125°F biodiesel fuel transfer applications.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +212°F(-40°C to +100°C); Air: +160°F(+71°C).



RLC 3-FIBER BRAID RETURN LINE AND LOW PRESSURE HOSE

RLC hose is recommended for petroleum-based hydraulic oils, glycol antifreeze, air or water in low-pressure fluid transfer or hydraulic system return lines.

- Generally connected to 100R4 stems, beaded nipples or tube type ports with worm gear clamps.
- Temperature Range: Hydraulic Oil Lines: -40°F to +275°F (-40°C to +135°C) constant; up to +300°F (+149°C) intermittent (up to 10% of operating time); Air: -40°F to +160°F (-40°C to +71°C).



HYDRAULIC HOSE PRODUCTS - LOCK-ON



MEGATECH® LOC 1-FIBER BRAID HIGH-TEMP LOCK-ON HOSE

LOC hose is recommended for high-temperature (+300°F) transmission oil cooler lines, pressurized hot oil return lines and turbocharger oil supply lines. Not recommended for gasoline or diesel fuel applications.

- For use with Field Attachable LOC Couplings [G36 Series] and MegaCrimp® Couplings [G25 Series].
- 300 psi constant pressure for all ID's.
- Temperature Range: -40°F to +300°F (-40°C to +149°C).



LOC 1-FIBER BRAID LOCK-ON HOSE

Gates LOC Lock-On Hose is ideal for petroleum-based hydraulic oils, glycol anti-freeze compounds, water, engine lubricating oils and air. Lock-On hose and couplings are NOT recommended for vibration or pressure surge applications, such as permanent piping in residential or commercial buildings.

- For use with Field Attachable LOC Couplings [G36 Series], use clamp over G37 single bead and G38 barbed fittings with clamp.
- Oil and mildew resistant textile braided cover impregnated with synthetic rubber.
- Meets SAE 30R2, SAE 30R6 and SAE 30R7 performance requirements for fuel and B20 biodiesel fuel transfer applications up to +125°F (+52°C).
- Temperature Range: -40°F to +250°F (-40°C to +121°C); Air: -40°F to +160°F (-40°C to +71°C).





HYDRAULIC HOSE PRODUCTS LOCK-ON - CONTINUED

LOL PLUS LOCK-ON HOSE

Recommended for petroleum–based hydraulic oils, water, glycol anti–freeze solutions, engine lubricating oils, and air, Lock–On hose and couplings are NOT recommended for pressure surge applications or critical applications, such as permanent piping in residential or commercial buildings. Do not use for gasoline or diesel fuels, unless approved by Gates H/C Product Application.

- For use with Field Attachable LOC Couplings [G36 Series], GLX® Couplings [G44 Series] and G37 single bead and G38 barbed fittings with clamp.
- Available in 6 colors for easy color coding; black Polychloroprene (LOLA), blue (LOLB), green (LOLG), red (LOLR), yellow (LOLY) and gray (LOLC).
- Black cover only meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperatures Range: -40°F to +212°F (-40°C to +100°C); Air: to +160°F (+71°C).



FLEET APPLICATION TR500 HIGH-TEMP/AIR BRAKE/ENGINE HOSE

Recommended for air brake hose, high temperature pressurized oil return lines and rotary oil/air compressor lines, engine and transmission coolant lines and lube oil lines. Not recommended for gasoline or diesel fuel applications.

- For use with MegaCrimp® Couplings [G25 Series].
- Meets or exceeds DOT FMVSS 106-74, SAE J1402 for air brake hose (-4, -6, -8, -10).
- Temperature Range: -40°F to +250°F (-40°C to +121°C).

NOTE: Federal law requires registration with the Department of Transportation for anyone producing air brake hose assemblies with swaged or crimped fittings. See Engineering and Technical Data Section of the Gates Hydraulic Catalog for compliance.



HYDRAULIC HOSE PRODUCTS FLEET APPLICATION - CONTINUED



MEGATECH® G5TB OIL-AIR RETURN HOSE

MegaTech® G5TB hose is recommended for pressurized hot oil return lines and rotary oil lines.

- For use with GL Couplings [G43 Series], GlobalSpiral™ Plus Couplings [G22 Series] and MegaCrimp® Couplings [G25 Series].
- Temperature Range: Petroleum-based Fluids: -40°F to +300°F (-40°C to +149°C); Phosphate Esters Fluids as recommended by the fluid manufacturer but within a range of -40°F to +212°F (-40°C to +100°C).



MEGATECH® II HOSE—SAE 100R2 TYPE AT - ACP

MegaTech® II hose is recommended for multi-purpose high-pressure, high-temperature, air compressor lines, petroleum-base or phosphate ester hydraulic fluid supply lines.

- For use with GlobalSpiralTM Plus Couplings [G22 Series], MegaCrimp[®] Couplings [G25 Series] and Stainless Steel Braid Couplings [G17 Series].
- Meets or exceeds the requirements of SAE 100R2.
- Temperature Range: -40°F to +300°F (40°C to +149°C).



MEGATECH® 3000 HIGH-TEMP OIL/AIR RETURN HOSE

MegaTech® 3000 High-Temp hose is recommended for pressurized hot oil return lines and rotary oil lines.

- For use with MegaCrimp® Couplings [G25 Series].
- 3000 psi constant pressure for all ID's and has a black textile braid cover.
- Temperature Range: Petroleum-based Fluids: -40°F to +300°F (-40°C to +149°C); Phosphate Esters Fluids as recommended by the fluid manufacturer, but within a range of -40°F to +212°F (-40°C to +100°C).





HYDRAULIC HOSE PRODUCTS FLEET APPLICATION - CONTINUED

MEGATECH® 1000 HIGH-TEMP OIL/AIR RETURN HOSE

MegaTech® 1000 High-Temp hose is recommended for air brake hose, pressurized hot oil return lines and rotary oil/air compressor lines. Not recommended for gasoline or diesel fuel applications.

- For use with MegaCrimp® Couplings [G25 Series].
- 1000 psi constant pressure for all ID's.
- Meets the requirements of DOT FMVSS 106–74, SAE J1402, for air brake hose (-4, -6, -8, -10).
- Temperature Range: Petroleum-based Fluids: -40°F to +300°F (-40°C to +149°C); Phosphate Esters Fluids as recommended by the fluid manufacturer, but within a range of -40°F to +212°F (-40°C to +100°C).

NOTE: Federal law requires registration with the Department of Transportation for anyone producing air brake hose assemblies with swaged or crimped fittings. See Engineering and Technical Data Section of the Gates Hydraulic Catalog for compliance.



MEGATECH® 500 HIGH-TEMP OIL/AIR RETURN HOSE

MegaTech® 500 hose is recommended for air brake hose, pressurized hot oil return lines and rotary oil/air compressor lines. Not recommended for gasoline or diesel fuel applications.

- For use with GL Couplings [G43 Series] and GlobalSpiral™ Plus Couplings [G22 Series].
- 500 psi constant pressure for all ID's.
- Temperature Range: Petroleum-based Fluids: -40°F to +300°F (-40°C to +149°C); Phosphate Esters Fluids as recommended by the fluid manufacturer, but within a range of -40°F to +212°F (-40°C to +100°C).



MEGATECH® 250 HIGH-TEMP TRANSMISSION OIL COOLER (TOC) HOSE

MegaTech 250 TOC hose is recommended for high-temperature transmission oil cooler lines, pressurized hot oil return lines and turbocharger oil supplies.

- For use with MegaCrimp® Couplings [G25 Series].
- 250 psi constant pressure for all ID's.
- Temperature Range: Petroleum-based Fluids: -40°F to +300°F (-40°C to +149°C); Phosphate Esters Fluids as recommended by the fluid manufacturer, but within a range of -40°F to +212°F (-40°C to +100°C).







C5C HYDRAULIC HOSE—SAE 100R5

C5C hydraulic hoses are recommended for medium pressure hydraulic petroleum-based oil lines in impulse applications, lube oil; air and water in applications such as air brakes, power steering (CAUTION: intended for heavy duty commercial vehicle use only), turbocharger oil supplies, tilt cab cylinders, transmission coolant and filtration lines. Not recommended for gasoline or diesel fuel.

- For use with C5 and C5X Field Attachable Couplings [G34 Series].
- Meets or exceeds requirements of SAE 100R5 for traditional hydraulic applications, DOT FMVSS 106-74 Type All and SAE J1402 Type All for air brake applications (-4 to -12).
- Avoid continuous use at maximum temperature concurrent with maximum working pressures.
- Temperature Range: Hydraulic Conditions: -40°F to +212°F (-40°C to +100°C);
 All-purpose Fleet Application (Hot Lube Oil Lines) -40°F to +300°F (-40°C to +149°C).



C5C-XH XTREME® HEAT HOSE—SAE 100R5

C5C-XH Xtreme® Heat Hose is recommended for extremely high-temperature lube oil lines for on-highway truck and bus, off-road construction and agricultural vehicles as well as high temperature petroleum based or phosphate ester fluids, turbocharger oil supply and hot lube oil lines.

- For use with C5 and C5X Field Attachable Couplings [G34 Series], and crimp options for MegaCrimp[®] [G25 Series] and GlobalSpiral™ [G20 Series], depending on size.
- Blue, oil and mildew resistant polyester/textile braid cover.
- Meets the requirements of SAE 100R5 for hydraulic applications.
- DOT FMVSS 106-74 Type All and SAE J1402 Type All for (-4 to -12).
- Temperature Range: -40°F to +302°F (-40°C to +150°C).

NOTE: Federal law requires registration with the Department of Transportation for anyone producing air brake hose assemblies with swaged or crimped fittings. See Engineering and Technical Data Section of the Gates Hydraulic Catalog for compliance.







C5D HIGH-TEMP MULTI-FLUID HOSE

C5D High-Temp hose is recommended for use with petroleum-based or phosphate ester fluids; diesel fuels and filtration lines, transmission coolant lines, hot lube oil lines, power steering (CAUTION: Intended for heavy-duty commercial vehicle use only), gasoline, turbocharger oil supplies, tilt cab cylinder and air brakes. Not approved for biodiesel above B5.

- For use with C5 and C5X Field Attachable Couplings [G34 Series].
- Black, oil and heat-resistant, synthetic rubber (CPE) tube.
- Green cover for easy identification, oil and mildew resistant, polyester braid impregnated with synthetic rubber.
- Meets or exceeds DOTFMVSS 106-74 Type All, SAE J1402 Type All and SAE J1405 and fuel resistance of SAE J30R2 (-4 to -12).
- Temperature Range: -40°F to +300°F (-40°C to +149°C); Air Only: +250°F (+121°C); Phosphate Esters: up to +212°F (+100°C).



C5M MARINE FUEL LINE HOSE

Recommended for all commercial and recreational vessel fuel line applications, C5M Marine Fuel Line Hose is suitable for marine diesel, gasoline, B100 Biodiesel, gasohol fuels and hot oil applications.

- For use with Brass or Steel C5 and C5X Field Attachable Couplings [G34 Series],
 GlobalSpiral™ Couplings [G20 Series] and MegaCrimp® Couplings [G25 Series].
- Nitrile tube with a one-wire braid reinforcement; Nitrile and PVC blue cover.
- Exceeds performance requirements of SAE J30R2 for non-marine applications and meets USCG marine fuel line specifications, SAE J1527 B100 to +52°C (+125°F) Type A Class 1 and SAE J1942-1 Type A and Type B requirements.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -4°F to +212°F (-20°C to +100°C).



C5E HIGH-TEMP FLEXLINE™ HOSE

C5E High-Temp Flexline™ hose is recommended for air brake hose, power steering (CAUTION: Intended for heavy-duty commercial vehicle use only), engine and transmission coolant lines and hot (+300°F) lube oil lines. Not recommended for gasoline or diesel fuel.

- For use with C5E Field Attachable Couplings [G35 Series].
- DOT FMVSS 106 Type A1, SAE J1405 and SAE J1402 Type A1 (-4 to -12).
- Temperature Range: -40°F to +300°F (-40°C to +149°C); Air Maximum Only: +250°F (+121°C).







C14 PTFE HOSE—SAE 100R14 TYPE A—NON-CONDUCTIVE

C14 PTFE hose is recommended for air compressor discharge, hot oil and fluids, hot and greasy environments.

- For use with Brass and Stainless Steel C14 Couplings [G40 Series].
- Temperature Range: Dynamic: -65°F to +400°F (-54°C to +204°C);
 Static: -65°F to +450°F (-54°C to +232°C).

NOTE: Electrostatic Discharge: Many applications involving PTFE hose do not require a conductive tube. But you must review the potential for electrostatic discharge for every application and be aware that static electricity can be hazardous. In those cases where electrostatic discharge can occur, conductive PTFE hose with a conductive tube (Gates C14CT) is recommended.



C14CT PTFE HOSE-SAE 100R14 TYPE B-CONDUCTIVE

C14CT PTFE hose is recommended for air compressor discharge, hot oil and fluids, hot and greasy environments.

- For use with Brass and Stainless Steel C14 Couplings [G40 Series].
- Temperature Range: Dynamic: -65°F to +400°F (-54°C to +204°C); Static: -65°F to +450°F (-54°C to +232°C).

NOTE: Electrostatic Discharge: Many applications involving PTFE hose do not require a conductive tube. But you must review the potential for electrostatic discharge for every application and be aware that static electricity can be hazardous. In those cases where electrostatic discharge can occur, conductive PTFE hose with a conductive tube (Gates C14CT) is recommended.







HYDRAULIC HOSE PRODUCTS - SPECIALTY

J2AT 2-WIRE BRAID JACK HOSE - 10,000 STATIC PRESSURE ONLY (also available with MEGATUFF® COVER)

J2AT hose is recommended for hydraulic jack applications. Meets Material Handling Institute specification IJ 100 for hydraulic hose and assemblies used with jacking systems. 10,000 Static Pressure Only.

- For use with MegaCrimp® Male Pipe Long Nose Couplings on jack end of assembly for full-thread engagement [G25 Series].
- MegaTuff® hose lasts up to 300 times longer than standard hose during hose-to-hose and hose-to-metal abrasion tests per ISO 6945.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +120°F (-40°C to +49°).





HOT OILER 2-WIRE BRAID HOSE (also available with MEGATUFF® COVER)

Recommended for static pressure and hot oiler applications, Hot Oiler hose is designed specifically to handle the transfer of hot oil at +275°F continuous, +300°F intermittent to clear the paraffin around the casing to help start the flow of oil to the surface.

- For use with Field Attachable Type T Couplings [G28 Series] and GlobalSpiral™ Plus Couplings [G22 Series].
- MegaTuff® hose lasts up to 300 times longer than standard hose during hose-to-hose and hose-to-metal abrasion tests per ISO 6945.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +275°F (-40°C to +135°C) constant; +300°F (+149°C) intermittent.



RFS RED FIRE SUPPRESSANT HOSE

RFS hose is recommended for low-pressure powder fire suppressant applications in mining, forestry and firefighting equipment.

- For use with MegaCrimp® Couplings [G25 Series] and Power Crimp® Couplings.
- The red cover is for easy visual identification in these applications.
- Meets performance requirements of SAE 100R1 and meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).







PLANT MASTER® 150-200 HOSE

Plant Master® hoses are used in air and water applications requiring maximum flexibility in any industry, including mining, construction, agriculture, vehicle repair and in-plant operations.

- For use with GLX® Couplings [G44 Series] and Power Crimp® Couplings.
- Outstanding resistance to heat and ozone.
- Suitable for light agricultural spraying and can handle mild chemicals such as dilute solutions of herbicides.
- Temperature Range: -40°F to +200°F (-40°C to +93°C).

NOTE: For more detailed information, refer to the Gates Industrial Hose catalog 39496-000.



PLANT MASTER® 250 HOSE

Plant Master® 250 hoses are recommended for air and water applications requiring maximum flexibility in any industry, including mining, construction, agriculture, vehicle repair and in-plant operations.

- For use with GLX® Couplings [G44 Series] and Power Crimp® Couplings.
- Outstanding resistance to heat and ozone.
- Suitable for light agricultural spraying and can handle mild chemicals such as dilute solutions of herbicides.
- Temperature Range: -40°F to +200°F (-40°C to +93°C).





HYDRAULIC HOSE PRODUCTS INDUSTRIAL - CONTINUED

PLANT MASTER® 300 HOSE

Recommended for air and water applications requiring maximum flexibility in any industry, including mining, construction, agriculture, vehicle repair and in-plant operations.

- For use with GLX® Couplings [G44 Series] and Power Crimp® Couplings.
- Outstanding resistance to heat and ozone.
- Suitable for light agricultural spraying and can handle mild chemicals such as dilute solutions of herbicides.
- Temperature Range: -40°F to +200°F (-40°C to +93°C).

NOTE: For more detailed information, refer to the Gates Industrial Hose catalog 39496-000.



PLANT MASTER® XTREME® 501 AR HOSE

This hose is recommended for applications requiring a premium-quality, multi-purpose hose with superior abrasion resistance for air, oil and some chemical applications. Excellent durability for extra-long life in these applications: mining, air drill, construction, poultry plants and other severe service.

- For use with GLX® Couplings [G44 Series], MegaCrimp® [G25 Series] and Power Crimp® Couplings.
- Good weather and ozone resistance.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).







PLANT MASTER® PLUS HOSE

Plant Master® Plus Lock-on hoses are used in applications requiring maximum flexibility and good resistance to air, water and heat. For SAE oils intermittent contact only.

- For use with GLX® Couplings [G44 Series].
- Red EPDM Type P cover; Type D3 (specially compounded elastomer) for 2 " black cover only. All sizes through 1/2 " have perforated cover.
- Temperature Range: -40°F to +200°F (-40°C to +93°C).

NOTE: For more detailed information, refer to the Gates Industrial Hose catalog 39496-000.



PLANT MASTER® XTREME® HOSE

Plant Master® Xtreme® hoses are recommended for applications requiring a premium grade spiral hose with excellent flexibility and maximum resistance to air, water, petroleum oils and lubricating oils (to +212°F). Recommended for gasoline, kerosene and fuel oil transfer only (to +120°F).

- For use with GLX® Couplings [G44 Series] and Power Crimp® Couplings.
- Excellent resistance to weather and ozone.
- Red Modified Nitrile Type C2 cover with black Nitrile Type C tube.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).

NOTE: For more detailed information, refer to the Gates Industrial Hose catalog 39496-000.



PLANT MASTER® XTREME® 300 AR HOSE

Applications requiring a premium grade spiral hose with superior abrasion resistance, excellent flexibility and maximum resistance to air, water, petroleum oils and lubricating oils (to +212°F), Plant Master® Xtreme® 300 AR hose is recommended for gasoline, kerosene and fuel oil transfer only to +120°F.

- For use with GLX® Couplings [G44 Series] and MegaCrimp® Couplings [G25 Series].
- Good weather and ozone resistance.
- Temperature Range: -40°F to +212°F (-40°C to +100°C).





HYDRAULIC HOSE PRODUCTS INDUSTRIAL - CONTINUED

PLANT MASTER® PLUS LOCK-ON HOSE

Plant Master® Plus Lock-On hoses are recommended for use in air, water, oils, antifreeze solutions and applications where Lock-On fittings are used.

- For use with GLX® Couplings [G44 Series] and Field Attachable LOC Couplings [G36 Series]. NOTE: Do not use clamps with Lock-On fittings.
- Cover available in black, blue, red, yellow, green or gray covers.
- Temperature Range: -20°F to +212°F (-29°C to +100°C); Air: +160°F (+71°C) only.

NOTE: For more detailed information, refer to the Gates Industrial Hose catalog 39496-000.

CAUTION: Hose is not recommended for applications where vibrations or pressure surges exist. Do not use oil for Lock-On fitting insertion purposes. Not recommended for gasoline or diesel fuels.



AG MASTER® HOSE

Ag Master® hoses are designed for agricultural spraying applications, such as dilute solutions of herbicides and fertilizers and can also be used for air and water applications requiring maximum flexibility in the agriculture industry.

- For use with GLX® Couplings [G44 Series].
- Outstanding resistance to heat and ozone.
- Tube and cover constructed from black EPDM Type P. All cover sizes through 1/2" are perforated.
- Temperature Range: -40°F to +200°F (-40°C to +93°C).





HYDRAULIC HOSE PRODUCTS INDUSTRIAL - CONTINUED

CLEAN MASTER® PRESSURE WASH HOSE

Clean Master® Pressure Wash Hose is recommended for hot and cold water highpressure cleaning equipment for commercial and industrial purposes, in food processing, sanitation and car wash applications. Not recommended for steam hose. Use bend restrictors to extend service life.

- For use with MegaCrimp® Couplings [G25 Series] and Stainless Steel Braid Couplings [G17 Series].
- Available in black, blue, gray, red and yellow non-marking covers (except black).
- Temperature Range: -40°F to +250°F (-40°C to +121°C). Laboratory tested for normal service. Increased operating temperatures will reduce hose assembly service life.

NOTE: For more detailed information, refer to the Gates Industrial Hose catalog 39496-000.



CLEAN MASTER® PRESSURE WASH ASSEMBLIES

Clean Master® Pressure Wash Assemblies are used on standard-duty hot and cold water, high-pressure cleaning equipment. Tube specially compounded to handle high-pressure water service. Specially compounded cover to handle pressure washer environment. Not recommended for steam service.

- For use with MegaCrimp® Couplings [G25 Series] and Stainless Steel Braid Couplings [G17 Series].
- Extremely flexible, lightweight and easy to handle.
- Temperature Range: -40°F to +250°F (-40°C to +121°C). Laboratory tested for normal service. Increased operating temperatures will reduce hose assembly service life.











LP350 AND LP350X HOSE

Gates LP350 hose is designed to convey liquid or gaseous propane, butane or any combination of these two mixtures. Can be used for natural gas (not to exceed 50 psi) under certain conditions, such as open/outside areas and well ventilated factory buildings (if local building codes permit).

Application Note: LP350 hose assemblies 60" or longer are not allowed per UL requirement.

- For use with GLX® Couplings [G44 Series] and Power Crimp® Couplings.
- Meets UL Standard #21, CAN/CGA-8.1-M86, NFPA 58, Section 8-3, 5.
- Temperature Range: -40°F to +180°F (-40°C to +82°C). Warning: Do not convey LP Gas over +140°F (60°C).

NOTE: Not recommended for residential, office buildings or as fuel line hose on compressed natural gas vehicles. Contact Denver Product Application (303)744–5070 for inspection and assembly testing information. For more detailed information, refer to the Gates Industrial Hose catalog 39496-000.



LPG VAPOR HOSE

LPG Vapor 125 hose can be used as a flexible connector for conveying low-pressure LPG (vapor only) to many types of farm and industrial heating applications; e.g., space heaters.

- Black Chloroprene Type A cover with a black Nitrile Type C tube.
- Meets Underwriters Laboratories Standard No. 569. (Applies to hose assemblies only.)
- Temperature Range: -30°F to +150°F (-34°C to +66°C) continuous service.

NOTE: For more detailed information, refer to the Gates Industrial Hose catalog 39496-000.

CAUTION: This hose should not be used for liquid LPG or in UL approved appliances such as barbecue grills.







FUEL MASTER® DELIVERY HOSE

Used in transferring fuel oils, diesel fuel or commercial gasolines in applications at temperatures as low as -40°F (-40°C), Fuel Master® Delivery hose is compatible with biodiesel fuels up to B20. This hose remains flexible to -20°F (-29°C).

- For home and heavy-duty commercial service where an abrasion–resistant and non–marking cover is required.
- Meets Flame Resistance Acceptance Designation MSHA 2G.
- Temperature Range: -40°F to +180°F (-40°C to +82°C).

NOTE: Not recommended for residential, office buildings or as fuel line hose on compressed natural gas vehicles.

CAUTION: Gasoline is normally conveyed below +120°F (+49°C).



FUEL MASTER® CURB PUMP HOSE

Fuel Master® Curb Pump hose is recommended for dispensing all types of commercial gasolines or other petroleum-based products from service station pumps (curb pump). This hardwall hose does not collapse in reel use or behind the nozzle in heavy-duty service.

- Black CPE Type J cover (5/8" and 3/4" smooth, 1" wrapped) with a black Nitrile Type C tube.
- Meets Underwriters Laboratories Standard No. UL330 (USA) and ULC-S612-99 (Canada); ARPM Class A high oil-resistance tube.
- Temperature Range: -40°F to +120°F (-40°C to +49°C) continuous service.

NOTE: For more detailed information, refer to the Gates Industrial Hose catalog 39496-000.



FUEL MASTER® DIESEL CURB PUMP HOSE

Fuel Master® Curb Pump hose is recommended for dispensing of all types of petroleum diesel fuels and biodiesel blends from service station pumps. A heavy-duty hardwall hose that does not collapse in reel use or behind the nozzle in heavy-duty service.

- Green CPE Type J smooth cover with a black Nitrile Type C tube.
- Meets Underwriters Laboratories Standard No. UL330 (USA) and ULC-S612 (Canada); ARPM Class A high oil-resistance tube.
- Temperature Range: -40°F to +120°F (-40°C to +49°C) continuous service.





CRIMPERS, PUMPS AND EQUIPMENT

GC®16XD™ MINI CRIMPER

PART NUMBER: 70115

Crimping at remote job sites requires a durable yet user-friendly crimper. Weighing only 44 pounds, this crimper can be used anywhere. The Gates Mini Crimper and pump combine the performance and speed of a powered pump with the convenience of a hand pump.

- 1" two-wire and 3/4" four-wire capability.
- User-friendly horizontal loading for crimping in the field.
- 80 ton crimp force.
- Unmatched portability and speed with 10,000 psi battery-operated pump.



MOBILECRIMP® 4-20 CRIMPER

POSITIVE STOP CONTROL *PART NUMBER: 77420* DIGITAL DIAL CONTROL *PART NUMBER: 77421*

This lightweight, versatile crimper used in remote job sites is powerful enough to crimp up to 1-1/4" four spiral-wire hose. Weighing approximately 57 pounds, this field crimper combines crimping technology with toughness and durability.

- Great for jobs in the field.
- Multiple pump options for maximum flexibility.
- Available in digital dial control or positive stop control options.
- Easy to use and versatile.



MOBILECRIMP® 4-20 AND GC®16XD™ POWER SOURCES BATTERY PUMP

PART NUMBER: 70187

Gates battery-operated pump has a sealed bladder reservoir that prevents contamination and allows the pump to operate in any position.

- Cordless, lightweight design with integrated handle and carrying strap.
- 1/2 horsepower motor and two 28V Lithium-Ion Milwaukee M28 batteries.
- High-strength fiberglass reinforced composite pump shroud for superior durability.
- Pressure Rating: 10,000 psi.
- Weight: 24 lbs.





HAND PUMP

PART NUMBER: 77821

No power source needed. Economical, convenient and portable for use anywhere. Make factory-quality assemblies in the field to minimize downtime.

- Pressure Rating: 10,000 psi.
- Weight: 28 lbs.



SHOP AIR PUMP

PART NUMBER: 77820

Works off standard shop air (90 psi). Economical, convenient and versatile for use wherever 90 psi compressed air is available.

- Pressure Rating: 10,000 psi.
- Weight: 12 lbs.



1/2 HP 115 VOLT AC PUMP

PART NUMBER: 77441

Medium speed. Economical. Recommended for a stationary or mobile application.

- Pressure Rating: 10,000 psi.
- Weight: 37 lbs.



1-1/2 HP 115 VOLT AC PUMP

PART NUMBER: 77442

High Speed. Recommended for stationary applications only.

- Pressure Rating: 10,000 psi.
- Weight: 87 lbs.



1/4 HP 12 VOLT DC PUMP

PART NUMBER: 77439

Mobile operation, runs on standard 12V car/truck battery or a 12V portable battery pack. Ideal for tough jobs in the field.

- Pressure Rating: 10,000 psi.
- Weight: 20 lbs.





GC20™ CRIMPER WITH GATES CORTEX™ INTELLIGENCE

PART NUMBER: 70446

Gates GC20TM with Gates® CortexTM Intelligence is the latest innovation in smart crimper technology. With access to live updates on eCrimpTM content and new product crimp specifications, GC20TM CortexTM takes the guesswork out of hydraulic assembly fabrication. The intuitive touchscreen controls reduce assembly time regardless of hose assembly experience and offers on-board training for new operators. At Gates, we design hydraulic hose crimper solutions to be smart and versatile for ultimate operational efficiency in the factory and the field — because every minute counts when you're on the clock.

- On-board videos simplify the training of new operators.
- Improved ergonomics with task light and die cone handle make the operator's job easier.
- Calibration, maintenance tracking and reminders promote quality control and uptime.
- Fully-operational offline functionality after initial set up using Wi-Fi.
- Store favorites for quick reference; rename saved assemblies and dragand-drop for preferred order.
- Electric controls are FCC and CE compliant for improved durability, performance and reliability.





POWER CRIMP® 707 CRIMPER

PART NUMBER: 77700

Gates Power Crimp® 707 is the most reliable, yet simplest crimper made. It was the first crimper with electronic digital readout to indicate gauge setting. The toughest part about using the 707 is pushing a button. It takes just a few seconds to make factory-quality hose assemblies.

- The first crimper with electronic digital readout to indicate crimp diameter setting.
- Crimps low-pressure return lines to high-pressure spiral hose, from 3/16" to 1-1/4" I.D. four-spiral wire.
- Crimps straight and bent tube couplings plus 45° and 90° (block style terminations require notched cone).
- Can also be adapted for use as a power swager.



GC20R CORTEX™/PC707 CONVERSION KIT

PART NUMBER: 70445

Gates offers a conversion kit to upgrade your PC707 crimper with the latest GC20 Intelligence™ technology.

- Includes the intuitive touchscreen control tablet which enables live updates on eCrimp™ content and new product crimp specifications that take the guesswork out of hydraulic assembly fabrication.
- Utilizes the same PC707 pump and dies.



POWER CRIMP® 707 AND GC20™ PUMP

PART NUMBER: 77810

The flows of two fixed displacement pumps are combined to deliver a high volume of oil at low pressure for fast transversion.

- 115V, 30 amp, circuit, 1 hp, 60 cycles.
- Dimensions: 12" wide by 25" deep by 12" high.
- Weight: 79 lbs.
- Maximum Working Pressure: 4,900 psi.





GC®32TSI™ CRIMPER

PART NUMBER: 78827

A versatile smart crimper, Gates® GC32 TSi™ Crimper offers rock-solid, leak-free, factory-quality hose assemblies every time. With the on-board eCrimp™ you'll always have access to the latest crimp specifications continually updated via WiFi.

- Intuitive icon-based navigation controls the crimper using a touch-screen tablet control panel for easy hose and coupling selection.
- Links to Gates eCrimp database for up-to-the-minute crimp specifications and optimal hose/coupling selection for precision crimps without looking up data or adjusting crimper settings.
- After crimp is complete, the crimp O.D. is automatically measured and displayed on screen.
- Controller is updated where wireless internet is available, or via thumb drive.
- Crimps up to 2" six-wire and 2-1/2" industrial hoses.
- Reduced maintenance with a self-lubricating crimper head using highcompression grease.
- Standard quick change tool for simple die loading.
- Horizontal front-end feed makes crimping easier and convenient.
- Electrical: 220v Single Phase; NEMA L6-20 connector.



GC®96TSI™-3 CRIMPER

PART NUMBER: 78392

The GC®96TSi™-3 crimper allows distributors to make reliable and professional looking assemblies providing more value to the end user. Our most advanced crimper design includes electronic screen control for fast easy action. The large crimper head allows industrial hose assemblies to be made with a variety of terminations using crimpable ferrules and sleeves.

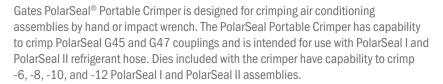
- Electronic touch screen control panel for fast input of crimper settings.
- Horizontal front-end feed makes crimping easier and convenient.
- Capable of crimping 3 " six-wire and up to 6" I.D. industrial hose.
- 2-speed die closure and rapid retract permit fast assembly fabrication.
- On-board Gates eCrimp™ specifications continually updated via Wi-Fi.
- Reduced maintenance with a self-lubricating crimper head using highcompression grease.
- Standard quick change tool for simple die loading.





POLARSEAL® PORTABLE CRIMPER

PART NUMBER: 77716



Portable hand operation, easy to change over from size to size.

CRIMPERS, PUMPS AND EQUIPMENT - CONTINUED

- Heavy-duty construction for use with air impact wrenches.
- Crimps two-braid dimension or reduced barrier hose.
- OE-style bubble crimp.
- Quick-change dies, no tools required to change sizes.
- Lightweight for easy handling, less than six pounds.
- Capable of crimping under-hood air conditioning applications.
- Includes six color-coded die sets for crimping two-braid barrier hose and reduced barrier hose.
- Removable die holder accommodates complicated shapes.
- Color-coded, urethane encased dies.
- Unit can be bench-mounted.
- Shipped in a custom carrying case with instructions.
- No electrical requirements.
- Locator flag centers ferrule in dies.



GATES BEND-N-FIT™ TUBE BENDER

PART NUMBER: 91025

Simply and easily duplicates bent tubes, used for:

- Power Steering.
- Air Conditioning.
- Transmission Oil Cooler.
- Fuel Lines.
- Plus many more applications.





HOSE CUTTERS

GATES HOSE CUTTER MODEL 1.25" FOUR-WIRE SHOP SAW

PART NUMBER: 78088

Powerful high-torque cutting saw for cutting wire braid and spiral hydraulic hose, this hose cutter provides effortless and straight cuts every time.

- For 2-wire braid and 4-wire spiral hose up to 1-1/4" I.D.
- 7" metal blade specifically designed to cut hydraulic hose with a 3/4" arbor.
- Power source: 1-1/2 horsepower, 115 Volt, 60 Hz, 20A motor with power cord and plug.



GATES 28VDC PORTABLE HYDRAULIC HOSE SAW

PART NUMBER: 78394

Gates Portable Hydraulic Hose Saw let you build a hose anywhere with the ultimate portable crimping solution. Used together, the durable Gates Mini Crimper, pump and saw make it easy to crimp at remote job sites while maintaining the high quality that hydraulic applications demand.

- Battery power provides unmatched portability. Uses the same Milwaukee M28 battery as the MobileCrimp™ 4-20 and GC®16XD™ Crimper Battery Pump. Battery sold separately.
- Cuts up to 1" four-spiral hose.
- Safety "C" clamp secures saw in cutting position.
- Quick adjusting locator pins make changing hose sizes easy.





GATES POWER CUTTER 208

PART NUMBER: 78028

Powerful high-torque cutting saw for cutting wire braid and spiral hydraulic hose, the Power Cutter 208 provides effortless and straight cuts every time.

- Clear face shield for added safety.
- Powerful high torque, 4.5 horsepower peak motor that makes cutting faster and easier.
- Includes scalloped, 12" blade to dissipate heat, reducing friction for clean, faster cuts up to 1-1/4" I.D.
- Optional abrasive blade for continuous use with 1-1/4" I.D. and larger spiral-wire reinforced hose.
- Safely cuts two and four-wire hose through 2", six-wire hose through 1-1/4".
- Reversible blade can be sharpened; removal and installation is easy.
- Cuts small 3/16" I.D. hose and handles the tough job including 2" I.D. spiral-wire hose. (Optional abrasive blade preferred for cutting spiral-wire hose, larger than 1-1/4" I.D.)
- Easy to use, front face plate with moveable pins holds hose securely for a clean straight cut.
- Sturdy blade guard shields blade for safety.
- Permanent mounting brackets (included) to attach saw to table.



GATES HOSE CUTTER MODEL 2" SIX-WIRE SHOP SAW

PART NUMBER: 78099

Powerful high-torque cutting saw for cutting wire braid and spiral hydraulic hose, this hose cutter provides effortless and straight cuts every time.

- For 2-wire braid and up to 2" six-wire spiral hydraulic hose.
- 10" metal blade specifically designed to cut hydraulic hose with a 40mm arbor.
- Power source: 5 horsepower, 220 Volt single phase, 60 Hz, 15A motor with power cord and plug.





HOSE CUTTERS - CONTINUED

GATES HS-1 HAND SWAGER

PART NUMBER: 78080

The Gates HS-1 Hand Swager produces top quality assemblies using Gates 1/8" (-2) and 3/16" (-3) thermoplastic hydraulic hose with Gates PCTS couplings and Gates C14 PTFE hose and couplings 3/16" (-4) through 7/8" (-16). Simply insert the assembly into the swager from the bottom, place dies around the coupling, and pump the handle. A six-ton jack then goes to work and the swage is completed. The perfectly swaged assembly is removed and you are ready to repeat the process.

- 6-ton jack provides complete swaging pressure.
- Positive Stop dies ensure a correct swage every time.
- Pushers, dies and tooling must be ordered separately.



SWAGER CONVERSION KIT FOR POWER CRIMP® 707

PART NUMBER: 78081

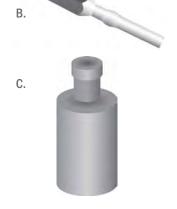
Produces top quality assemblies using Gates 1/8" and 3/16" thermoplastic hydraulic hose with Gates PCTS couplings and Gates C14 PTFE hose and couplings.

- Easily converts the Power Crimp 707 to a power swager.
- Dies and pushers must be ordered separately.
- See Gates Hydraulic Catalog 431-2080 or Gates.com for kit contents.



C14 TOOLING

- A. C14 Hose Insertion Die Holder for use with Hose Insertion Dies: Required for inserting hose into ferrule on all sizes.
- **B.** C14 Hose Expanders: Used to expand the hose and round out the tube after cutting and to insert the stem into the hose.
- C. C14 Swage Pushers: Protects the threads and bottoms out on the dies to complete the swage.
- D. C14 Swage Dies: One die set is required for each hose size.
- E. C14 Hose Cutting Shear: This cutting shear handles Gates C14 PTFE hose up through 1".











MEGACRIMP® COUPLING INSERTION TOOL

PART NUMBER: 78017

Offers an easy way to confirm the right insertion depth for all Gates wire-braid hydraulic hose. To use, simply insert the hose into its proper slot indicated by dash size, push it all the way in, check for square cut (maximum allowable angle of cut is five degrees), then mark the insertion depth on the hose.



LOCK-ON TOOL

PART NUMBER: 78050

This hand-operated coupling machine, made of rugged cast iron and steel construction, eliminates the hard work of manually pushing stems into hose. It comes complete with mandrels for 1/4", 3/8", 1/2", 5/8" and 3/4" I.D. sizes of lock-on couplings.



HAND-OPERATED HOSE PERFORATOR TOOL

1-1/4" HOSE PERFORATOR *PART NUMBER: 78070* 3" HOSE PERFORATOR *PART NUMBER: 78071*

These hose perforators have needle-studded wooden rollers which perforate the covers of non-skive wire braid hose used in high pressure inert gas applications. They are hand-operated so the operator can control the degree of perforation in the hose cover.



MEGACLEAN™ SYSTEM

Used to remove dirt with the help of pressurized launchers and compatible nozzles, Gates MegaClean $^{\text{TM}}$ foam projectiles sweep through the inside surface of the hose, taking fine particles of loose dirt and other contaminants with them. At 20–30 percent larger than the hose ID, these projectiles leave nothing behind but a hose that is clean from the inside out.





HOSE GUARDS & SLEEVE PROTECTORS

NYLON PROTECTIVE SLEEVE - G818 SERIES

Gates Nylon Sleeves perform a dual role: (1) they provide excellent abrasion resistance to protect individual hose; and (2) they can be used to bundle several hose assemblies together for maximum protection.

- Extremely flexible nylon filament mesh forms a self-renewing shield that protects against abrasion for hose and hose bundles, reducing downtime and maintenance costs.
- MSHA flame-resistant approval.
- Temperature Range: -40°F to +250°F (-40°C to +121°C).

IMPORTANT: Be sure to heat the cut edges of the sleeve to prevent fraying.



POLYSLEEVE™ HIGH DENSITY POLYETHYLENE HOSE WRAP - G818 SERIES

Gates PolySleeve™ is a spiral wrap designed to protect or bundle hose for appearance and safety. PolySleeve protects hose from chaffing, rubbing, crushing, ultraviolet rays and other hazards that cause hose failures. It can be an easy and economical way to protect equipment, reduce downtime, improve sighting and improve overall appearance. PolySleeve can be installed easily - even after the hose assembly or assemblies are in place. The edges are rounded, so installers won't cut their hands. Just wrap a section of Gates PolySleeve in the abrasion area or wrap it around any number of hose for better appearance or safety.

- Easy to install before or after assembly fabrication or installation.
- Guards against harsh environmental conditions for reduced downtime.
- Safe, affordable protection for hydraulic and pneumatic lines.
- Available in two colors (black and yellow); multiple sizes for individual hose or bundling.
- Made of heavy-wall, high-density polyethylene (HDPE) with round edges inside and out to avoid unintentional damage to the hose.
- Temperature Range: -40°F to +280°F (-40°C to +138°C). At -40°F it starts to become somewhat brittle; at +280°F it starts to become soft. After temperature is normalized, PolySleeve returns to its original state quickly.





HOSE GUARDS & SLEEVE PROTECTORS - CONTINUED

PLASTIC PROTECTIVE COIL SLEEVE - G819 SERIES

Economical, lightweight plastic sleeving protects hose from water, air, gasoline and hydraulic fluids.

- Easy to install before or after assemblies are in place.
- Temperature Range: -40°F to +250°F (-40°C to +121°C).



PLATED FLAT ARMOR AND PLATED WIRE SPRING GUARDS - G828 AND G838 SERIES

For proper spring guard selection compare the outside diameter of the hose to the inside diameter of the spring guard.



CLAMP COLLARS - G520 SERIES

Clamp collars are actually crimped onto a hydraulic hose, reducing hose movement and minimizing abrasion. Collars must be crimped before the hose coupling.



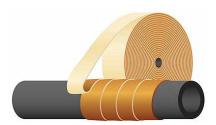




HEATGUARD® PROTECTIVE SHEATHING - G811 SERIES

HeatGuard® can pay for itself in reduced replacement and maintenance costs. It is available in two grades – HeatGuard and HeatGuard Hi–Temp. (Contact Gates Hose Product Application for details.)

- Completely non-asbestos, heat-resistant, protective sleeving.
- Goes on easily over most hose and couplings, with only hose clamps or wire ties required for fastening.
- HeatGuard is engineered with coated fiberglass; HeatGuard Hi–Temp is braided, coated fberglass and meets SAE AS1072E specification.
- Nominal wall thickness: 0.135" and 0.142".
- Temperature Range: HeatGuard: coated fiberglass -65°F to +500°F (-54°C to +260°C). HeatGuard Hi–Temp: -65°F to +500°F (-54°C to +260°C) for continuous exposure; up to 2000°F (1093°C) for 15–20 minutes and up to 3000°F (1650°C) for 15–30 seconds.



HEATGUARD® TAPE - G811 SERIES

HeatGuard® Tape is designed to provide a non-adhesive insulating wrap that can be used as a substitute for HeatGuard® Protective Sheathing, offering resistance to molten metal splash, radiant heat, abrasion, corrosive atmosphere, moisture, chemicals, vibration and electricity.

- White knitted fiberglass yarn woven in a flat strip.
- Coated on one side with iron oxide red silicone rubber with a nominal thickness of 0.147".
- Temperature Range: Rated for 500°F (260°C) constant; up to 2000°F (1093°C) for 15–20 minutes and up to 3000°F (1650°C) for 15–30 seconds.





HOSE GUARDS & SLEEVE PROTECTORS - CONTINUED

LIFEGUARD™ LINE-OF-SITE SLEEVING SYSTEM - G819 SERIES

The LifeGuard™ sleeving system is designed to protect operators, equipment and the environment from the hazards of catastrophic hydraulic hose failure – a level of protection previously unavailable. The sleeve will contain bursts up to 10,000 psi and pinhole leaks up to 5,000 psi at 212°F (100°C) for up to five minutes. After redirecting the explosive force down the length of the hose, the LifeGuard sleeve disperses the energy and fluids at the hose ends via carefully designed "channel" clamps. The leaked fluid then allows for fast hose failure detection.

- Patented system includes Gates hose, couplings, sleeve and channel clamps.
- Handles hydraulic fluids and biodiesel fuel.
- Allows fluid to safely escape down the length of the failed assembly.
- Correlates to ISO 3457 and meets MSHA's flame resistance requirements.



VINYL BEND RESTRICTOR - G807 SERIES

Gates tapered vinyl bend restrictor reduces bending stress in the hose near the coupling to prevent damage, commonly used in power wash applications to extend hose life.

- Friction Fit: no adhesives or clamps required to hold bend restrictor in place on hose assembly, which saves assembly cost.
- Smooth finish will not scratch finish on equipment.
- Temperature Range: -40°F to +200°F (-40°C to +93°C).



COUPLINGS + ADAPTERS



G8K COUPLINGS - G19 SERIES

Gates G8K stems and ferrules are designed specifically for use with G8K (8000 psi) hose. No-skive coupling offered only in Caterpillar-style, heavy-duty flange.





GS GLOBALSPIRAL™ COUPLINGS - G20 THROUGH G24 SERIES

GlobalSpiral™ couplings are specially engineered to provide superior performance for extreme high-pressure, high-impulse spiral-wire hydraulic hose applications. They can be used with all Gates MegaSys® four- and six-spiral wire hose up to 6,000 psi. When used with 2-wire ferrules, GlobalSpiral couplings can also be crimped on Gates wirebraid hoses. The innovative, two-piece, no-skive design reduces assembly time, labor, fabrication errors and contamination of the fluid power system.

- "Bite-the-wire" crimp for improved coupling retention.
- Tested to an industry-leading 1,000,000 impulse cycles.
- +250°F temperature capability for longer assembly life.
- Environmentally-friendly TuffCoat® plating for 347% better corrosion resistance than the SAE Standard.





MEGACRIMP® COUPLINGS – G25 SERIES

The patented "C" insert pre-assembled MegaCrimp® coupling gives world-class, leakproof performance. It is designed with a patented "C" insert attached to the ferrule that accommodates hose of different constructions and wall thicknesses. The insert's design ensures crimping forces are evenly distributed to form a concentric seal. The "C" insert simplifies inventory requirements since one MegaCrimp coupling size can accommodate various hose outside diameters, on both one- and two-wire braid hydraulic hose.

- Robust "bite-the-wire" crimp.
- Tested to an industry-leading 1,000,000 impulse cycles.
- Simplifies inventory management.
- Environmentally-friendly TuffCoat® plating for 347% better corrosion resistance than the SAE Standard.
- Popular thread styles also available with TuffCoat Xtreme™ plating for 583% better corrosion resistance than the SAE Standard.





COUPLINGS + ADAPTERS - CONTINUED

BRAID AND SPIRAL STAINLESS STEEL COUPLINGS - G17 AND G18 SERIES

Use various combinations of ferrules and stems to satisfy requests for high pressure wire braid and spiral wire hose assemblies with stainless steel couplings.

- G17 Series accommodates wire braid hose; G18 Series is used for spiral wire hose.
- Designed to perform with high and medium pressure hose.
- Made with 316 Stainless Steel for high corrosion environments.



POWER CRIMP® COUPLINGS

Power Crimp® stems and ferrules are designed for use with your Gates hoses with a wide variety of couplings available for easy installation.

- Designed to perform with high and medium pressure hose.
- Sizes 3/16" through 2" I.D.
- Zinc plated carbon steel.



LOCK-ON LOC COUPLINGS - G36 SERIES

Push-On Couplings used on Gates Lock-on Plus hose series.

Easy push-on brass couplings for LOL and LOC hose.



GL COUPLINGS - G43 SERIES

Gates GL low pressure couplings has been specifically designed with a pre-crimped soft shell to work with lower pressure hydraulic suction lines and low pressure return line hose.

- Designed for larger-diameter hoses up to 4" I.D.
- Short body length provides the necessary grip for low pressure hose requirements
- Bubble pattern crimp design ensures optimal sealing to helical wire hoses on return vacuum applications.





COUPLINGS + ADAPTERS - CONTINUED

GLX® COUPLINGS - G44 SERIES

GLX® couplings are specially designed as a crimped solution for use on Gates textile-

Used on all types of textile-reinforced hoses.

reinforced hoses with working pressures up to 1000 psi.

- Steel couplings come in a wide range of terminations.
- Environmentally-friendly TuffCoat® plating for 347% better corrosion resistance than the SAE Standard.



C14 COUPLINGS - G40 SERIES

Special tools available to make swage-type installations easy.

- Designed to perform with C14 hose.
- Stainless steel, brass or carbon steel.
- Recommended for air compressor discharge, hot oil and fluids, hot and greasy environments.
- Compliant to SAE100 R14 specification.



PCTS THERMOPLASTIC COUPLINGS - G51 SERIES

Gates PCTS swage-style couplings provide a one-piece solution for building assemblies with thermoplastic hose.

- Designed to perform with TH7 and TH7NC thermoplastic hose.
- Various thread styles available to meet the needs of applications utilizing thermoplastic hose.







FIELD ATTACHABLE TYPE T COUPLINGS - G27 AND G28 SERIES

Field Attachable Type T couplings provide a solution when crimping is not available.

- For use with G1, G2H and G2L hoses.
- Popular threads from 1/2" to 1-1/2" I.D.
- See Gates Hydraulic Catalog 431-2080 for installation instructions.



FIELD ATTACHABLE C5 COUPLINGS - G34 SERIES

Gates D.O.T. Type A2 Field Attachable couplings work with C5C, C5CXH, C5D and C5M hoses to allow for easy assembly fabrication of air brake, power steering, transmission oil cooler and hot oil lines without the need for a crimper.

- Designed to perform with Gates C5 hose.
- Zinc-plated carbon steel.
- Meets DOT FMVSS 106-74 Type All.



FIELD ATTACHABLE C5E COUPLINGS - G35 SERIES

Our D.O.T. Type A1 Field Attachable couplings work with Gates C5E hose to allow for easy assembly fabrication of air brake, power steering, transmission oil cooler, and hot oil lines without the need for a crimper.

- Designed to perform with Gates C5E Hose.
- Zinc-plated carbon steel.
- Meets DOT FMVSS 106-74 Type All.





COUPLINGS + ADAPTERS - CONTINUED

ADAPTERS - G60, G62, G63, G64, G65 AND G73 SERIES

Gates hydraulic adapters allow for easy assembly on medium, high, very high and extremely high pressure hose.

- Available in the following configuration: SAE to SAE, British to SAE, Metric to SAE, International to International, Metric Conversion and Japanese Conversion.
- Conforms to SAE and ASME specifications (rated to SAE 100R2 pressure maximum).
- Flange adapters rated to 6000 psi for replacing bent tube assemblies with standard stock couplings.



LIVE SWIVELS - G93 SERIES

Gates Live Swivels have a robust design that outperforms the competition.

- Increase productivity and reduce operating costs.
- Robust design with free-floating, self-lubricating thrust washer has replacement factor of up to 10X traditional swivels.
- Solution for applications where hydraulic hoses are subject to twist.



QUICK DISCONNECT COUPLERS - G94 AND G95 SERIES

Gates Quick Disconnect Couplers offer premium quality couplers in a variety of sizes and body styles.

- Available in Agriculture and Industrial styles.
- Flush face, poppet valves, ball valves and wing nut styles.
- O-Rings, dust caps and plugs available.



BALL VALVES - G96 SERIES

These Ball Valves are ideal for applications on stationary plant equipment as well as mobile equipment in agriculture, construction and mining. Features a durable ball and stem, buna, Biton®, o-rings and Delrin® ball seats to deliver optimal performance and long life.

- Premium quality, easy to install and easy to maintain.
- Available in 2-way block, 2-way round and 3-way block styles.



MERCHANDISERS AND SALES AIDS



INTERACTIVE ACCESSORY AND TIMING BELT DRIVE SYSTEM DISPLAY PART NUMBER: 91078

Gates "Be System Smart" Belt Education Display helps explain the importance of serpentine and timing belt systems maintenance, emphasizing the need for complete system replacement. By understanding how these systems work and wear together, you'll avoid expensive system failures. Be System Smart and replace the full serpentine or timing system and not just a single part.

- Dual-sided display rotates 360 degrees to show either Serpentine or Timing System.
- 3D unit has real belts and moving system components.
- Built-in brochure holder at top of display.
- "Be System Smart" consumer brochures included.
- Lightweight but durable, sturdy construction sits securely on countertop.
- Size: 18"H x 10"W x 3"D.



POWERATED® "70" BELT MERCHANDISER

PART NUMBER: 91230

PART NUMBER: 91234 - Display Only

In-store merchandiser used to display Gates PoweRated® belts. Merchandiser alone includes belt length finder, catalog and racks to hang belts. Merchandiser plus assortment includes belt length finder, catalog, number tags and top 70 selling PoweRated belts.

- Designed to professionally and cleanly display the Gates PoweRated line of belts.
- Merchandiser with assortment takes the guessing out of which belts to stock by providing the Gates recommended assortment.
- Six four-feet metal racks.

NOTE: Pegboard and gondola not included.

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BELT BOARDS AND BELT FINGER RACKS

BELT BOARD *PART NUMBER: 91488* FINGER RACK *PART NUMBER: 91530*

Allows dealers to stock multiple belts per hook using less space.



- Racks easily screw to the wall; then all you do is slide belt over hook or finger.
- Belt board includes 6 metal hooks per board.
- Finger racks include: (5) 3' metal finger racks (enough for 250 V-belts), mounting screws, and wall spacers.



HOSE HANGERS

PART NUMBER: 91999

Convenient plastic hook hangers that can quickly be attached and detached from individual hoses for storage and/or display.

- 50 per package.
- Will not damage hose.
- Works well with Gates belt boards (Part No. 91488).







BARRICADE® FUEL LINE AND VACUUM TUBING MERCHANDISER/ ASSORTMENT

PART NUMBER: 91184

PART NUMBER: 91183 - Display Only

Attractive, metal cabinet comes assembled and dispenses 12 reels of fast-selling Gates Barricade® Fuel Line, EEC and PCV hoses or tubing for windshield washers and vacuum-operated accessories.

- Contains 12 fast-selling hose sizes on individually mounted and replaceable reels.
- Handy measuring scale printed on lid makes it easy to measure exact size of hose needed.
- Can be displayed on counter or mounted on wall.
- Attached chain designed to hold hand-held hose cutter.
- Black in color with Gates logos.
- Base dimensions are 18"H x 19-1/2"W x 16"D.

NOTE: Combine this merchandiser with the Heater Hose Merchandiser to create the modular Hose Center.

FUEL LINE/PPVC/EEC HOSE 25 FT.	
PART NO.	I.D. (IN.)
27000	1/8
27001	3/16

VACUUM TUBING 50 FT.	
PART NO.	I.D. (IN.)
27041	1/8
27042	5/32
27043	7/32
27044	1/4

BARRICADE® CARBURETION HOSE 25 FT.	
PART NO.	I.D. (IN.)
27313	1/4
27314	5/16
27315	3/8

BARRICADE® INJECTION HOSE 25 FT.	
PART NO.	I.D. (IN.)
27339	1/4
27340	5/16
27341	3/8

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HEATER HOSE MERCHANDISER

PART NUMBER: 91160

Attractive, yet rugged metal cabinet organizes and keeps stock neat. Designed to hold dispensing cartons, making it easy to pull hose out for measuring. Create a "Hose Center" by adding the popular Gates Fuel Line/PCV/EEC and Vacuum Tubing Merchandiser to the top of this unit.

- Can be used in combination with 91183 vacuum and fuel line dispenser.
- Holds one each 50 ft. cartons of 1/2", 5/8" and 3/4" heater hose.
- Handy 36" measuring scale printed on side makes it easy to measure the exact length of hose needed.
- Black in color with Gates logos.
- Assembled unit measures 40"H x 19-11/16"W x 16"D.

NOTE: Merchandiser does not include hose.



HOSE REEL MERCHANDISER

PART NUMBER: 91127

Trouble-free 6-reel metal merchandiser for hose.

- Holds 6 small reels of fuel, vacuum, coolant, as well as other hose.
- 4 screws and 4 plugs for attachment to the wall and 2 special hooks fitting any type of pegboard.
- A Gates lightweight hose cutter tied to the frame by a light chain.
- Dimensions are 31"H x 16"W.





HYBRID AIR HOSE MERCHANDISER DISPLAY

PART NUMBER: 27571B PART NUMBER: 27571H

Gates offers a hybrid air hose display with distinct signage identifying the product.

- Great for in-store promotion or industry show.
- Part No. 27571B includes full-corrugated pallet box with opening, sign and 54 pieces of 27571.
- Part No. 27571H includes half-corrugated pallet box with opening, sign and 36 pieces of 27571.



HEATER HOSE CONNECTOR ASSORTMENT

PART NUMBER: 91175

Gates heater hose connector kit upgraded with a range of sizes will make sure you won't be caught without the right size to make a repair.

- Upgraded component range to match Gates fuel line and heater hose offerings.
- Inside cover plan-o-gram easily identifies the location of each type and size connector.
- Premium storage container can be connected to create a double-sided unit.
- Assortment contains three connector shapes: Straight, Elbow and Tee.

STRAIGHT CONNECTORS	
PART NO.	O.D. (IN.)
28600	5/16
28602	3/8
28603	1/2
28604	5/8
28605	3/4
28606	1

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ELBOW CONNECTORS	
PART NO.	O.D. (IN.)
28620	5/16
28622	3/8
28623	1/2
28624	5/8
28625	3/4
28626	1

TEE CONNECTORS	
PART NO.	O.D. (IN.)
28630	5/16
28632	3/8
28633	1/2
28634	5/8
28635	3/4
28638	1

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FUEL LINE AND VACUUM TUBING CONNECTOR ASSORTMENT

PART NUMBER: 91174

The handy impact-resistant plastic case holds an assortment of 36 fuel line and vacuum tubing connectors. This hose connector assortment kit is for use with Gates engine hose offering.

- Provides a convenient storage container for complete line of fuel line and vacuum tubing connectors.
- Inside cover plan-o-gram easily identifies the location of each type and size connector.
- Assortment contains three connector shapes: Straight, Elbow and Tee.

STRAIGHT CONNECTOR		
PART NO.	O.D. (IN.)	
28561	3/32	
28562	1/8	
28563	5/32	
28564	3/16	
28601	1/4	
28600	5/16	
28602	3/8	
28603	1/2	

ELBOW CONNECTOR	
PART NO.	O.D. (IN.)
28571	3/32
28572	1/8
28573	5/32
28574	3/16
28621	1/4
28620	5/16
28622	3/8
28623	1/2

TEE CONNECTOR	
PART NO.	O.D. (IN.)
28581	3/32
28582	1/8
28583	5/32
28584	3/16
28631	1/4
28630	5/16
28632	3/8
28633	1/2





REDUCER CONNECTOR ASSORTMENT

PART NUMBER: 91177

Upgraded component range to match Gates fuel line and heater hose offerings.

- Inside cover plan-o-gram easily identifies the location of each type and size connector.
- Premium storage container can be connected to create a double-sided unit.
- Plastic case contains 2 each of 11 different size reducer connectors.

REDUCER CONNECTORS	
PART NO.	O.D. (IN.)
28591	3/32 to 1/8
28592	1/8 to 5/32
28593	3/16 to 1/4
28594	5/16 to 3/8
28609	3/8 to 1/2
28610	1/2 to 5/8
28611	5/8 to 3/4
28612	1 to 3/4
28639	5/16 to 1/2
28640	3/8 to 3/4

"Y" CONNECTORS	
PART NO.	O.D. (IN.)
28551	3/32
28552	1/8
28554	3/16

TEE REDUCER CONNECTORS			
PART NO.	END 1 O.D. (IN.)	90° TEE O.D. (IN.)	END 2 O.D. (IN.)
28636	5/8	3/8	5/8
28637	3/4	3/8	3/4
28641	5/8	3/8	5/8
28642	1/2	1/4	1/2







HOSE CLAMP MERCHANDISER

PART NUMBER: 91192

PART NUMBER: 91191 - Display Only

Handy and durable plastic storage rack, comes complete with seven different sizes of hose clamps. Keep your popular sizes of hose clamps neatly organized with this merchandiser.

- Easily mounts to counter, wall or aisle.
- Dimensions are 17-1/2"H x 15"W x 5-1/8"D.
- Includes: Display, (20) 32001, (10) 32007, (10) 32010, (20) 32012, (10) 32020, (20) 32028, (10) 32036.



RADIATOR CAP AND COOLING SYSTEM ANALYZER KIT

PART NUMBER: 31367

This kit contains all components needed to check common cooling systems filler neck and radiator cap configurations. Cooling system adapters and radiator cap adapters for various filler neck and radiator cap configurations also available.

- Kit includes lightweight, impact-resistant analyzer, 31425 (Replacement Spacer Kit for 1" deep filler necks) and 31413* (Cap Adapter for 3/4" deep caps).
- Comes in handy carrying case.
- Pressure release button on easy-to-read gauge allows for safe venting of system during testing.

*WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

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RADIATOR CAP/COOLING SYSTEM TESTER ADAPTERS

PRODUCT TYPE: 7410

These adapters are used with the Radiator Cap and Cooling System Tester to accommodate multiple sizes of components.

- Makes for a wider range of vehicle application testing capabilities.
- Covers a wide range of pressures.
- Covers a wide range of cap and filler neck configurations.

★ WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

CAP ADAPTERS			
PART NO.	DESCRIPTION	THREADED	
31379	52mm O.D.	Threaded	
31378	45mm O.D.	Cam-on	
31382	44mm O.D.	Threaded	
31384	48mm x 3mm	Threaded	
31391	50mm O.D.	Threaded	
31413	3/4" Deep Caps	Threaded	
31432	51.3mm O.D.	Threaded	
31434	59.2mm I.D.	Threaded	
31436	62mm O.D.	Threaded	
31438	51.3mm O.D.	Threaded	

CAP ADAPTER AND COOLING SYSTEM ADAPTER		
PART NO.	DESCRIPTION	
31429	Kit for Truck 2-11/16" O.D. B Size	

COOLING SYSTEM ADAPTERS			
PART NO.	DESCRIPTION	THREADED	
31380	48mm	Threaded	
31381	57mm	Threaded	
31410	52mm X 2.5mm Buttress	Threaded	
31370	52mm x 3mm	Threaded	
31371	45mm x 3mm	Threaded	
31377	48mm x 3mm	Threaded	
31390	2 1/2" I.D.	Threaded	
31392	49.4mm x 3mm	Threaded	
31409	31mm I.D. x 10mm Deep Cam-on		
31424	52mm x 4mm	Threaded	
31426	Adapter & Gasket Kit for B Size Filler Neck	Cam-On	
31428	32mm I.D. x 16mm Deep	Cam-On	
31431	48mm I.D.	Threaded	
31433	62.7mm O.D.	Threaded	
31435	60.5mm I.D.	Threaded	
31437	48mm I.D.	Threaded	
31439	61mm I.D.	Threaded	

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AIR BRAKE HOSE PRODUCT MERCHANDISER

PART NUMBER: 91180

This merchandiser holds air brake hose assemblies, PTFE assemblies and is packed with labels for both products.

- Keeps assemblies organized, handy and ready to use.
- Mounts to the wall.



FUEL CAP CABINET

PART NUMBER: 91117

The cabinet is attractive and eye-catching, as well as rugged and durable. Capacity to add part numbers beyond the basic 80 percent coverage.

- Sturdy steel construction for prolonged life and durability.
- Attractive display keeps fuel caps neatly organized.



INTERNATIONAL AND NORTH AMERICAN THREAD IDENTIFICATION KITS

Being able to identify couplings is essential, as sales growth of these coupling lines continues to grow. Both kits come with a carrying case and pocket thread ID kit.



NORTH AMERICAN THREAD KIT

PART NUMBER: 70270

 Kit contains: 45 anodized aluminum gauges sized from 1/8-27 to 2-1/2-12 for pipe and 5/16-24 to 2-1/2-12 for UN/UNF threads, male and female.



INTERNATIONAL THREAD ID KIT

PART NUMBER: 70264

Kit contains: 21 metric and 10 British thread gauges, male and female.



POCKET THREAD IDENTIFICATION KIT

PART NUMBER: 86583

To properly identify the correct replacement couplings, the measuring tools shown here should be used.

Contents include:

- Calipers
- Seat Gauges (English)
- Seat Gauges (Metric)
- Thread Gauges
- Thread I.D. Guide

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VERTICAL HYDRAULIC HOSE CABINET

PART NUMBER: 78188



- Six narrow and two wide slots to stock a variety of hydraulic hose.
- Designed to support one hydraulic coupling cabinet on top for maximum efficiency.
- Optional choice for use as cabinet base with maximum of one four-drawer cabinet.
- Measures 41" wide by 12" deep (top), 36" high.
- Lower picture shown with four-drawer cabinet (purchase separately as Part No. 78190) on top of this Vertical Hydraulic Hose Cabinet.





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TWO- AND FOUR-DRAWER COUPLING CABINET

TWO-DRAWER *PART NUMBER: 78189* FOUR-DRAWER *PART NUMBER: 78190*

These cabinets are ideal to organize your hydraulic coupling inventory.

- Can be stacked and bolted together with your existing hydraulic cabinet.
- Uses 3 1/2" or 7" bins.
- Two-Drawer Cabinet measures 41" wide by 12" deep by 11" high;
 Four-Drawer Cabinet measures 41" wide by 12" deep by 21" high.
- Stationary legs and/or heavy-duty caster leg sets available.
- Bin boxes sold separately.







WORK BENCH

PART NUMBER: 78022

This hydraulic work bench is ideal for holding either the Power Crimp®707 or MobileCrimp®4-20 crimpers, as well as hydraulic saws. The lower shelf can be used for storage or to hold the pump.

- Provides ample work service to make hose assemblies.
- Angle iron frame with high density fiberboard surfaces.
- Welded 13-gauge steel lower shelf.
- All hardware is included to allow for easy assembly in about 10 minutes.

NOTE: Crimpers must be bolted down to table top.



HYDRAULIC HOSE REEL RACK

PART NUMBER: 78186

This sturdy and convenient rack stores three reels of hose.

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HYDRAULIC COUPLING BIN

PART NUMBER: 78207

The 24-bin cabinet is constructed of heavy gauge steel.

- Cabinet measures 34" wide by 12" deep by 24" high.
- Excellent for storing large 1-1/4" to 2" I.D. couplings.
- Coupling bin boxes sold separately.



BRASS CABINET

PART NUMBER: 78185

This attractively-designed cabinet is a must-have to keep small fittings organized. The welded steel cabinet contains industrial strength clear plastic drawers that slide smoothly and let you see the contents at a glance. Clear dividers ensure separation of fitting types, so you can keep fittings categorized.

- Newly designed specifically for smaller air brake and brass fittings.
- 72 drawers with 2 dividers create 3 spaces per drawer.
- 216 total locations for all your component needs.
- Dimension: 44" wide x 30" tall x 12" deep.
- Cards slide into slots on front of drawers for easy identification of contents.
- Additional drawer dividers and component identity cards ordered separately.



PROFESSIONAL-GRADE TOOLS



CAM GEAR SPROCKET TOOL

PART NUMBER: 91008

Gear holding tool provides safe, effective means for holding gear while removing and reinstalling belt or sprockets without damaging gears, cams or valves. Many enginetiming procedures require camshaft to be held in position while gear or belt is removed from shaft to re-align cam timing position properly.

- Tool can also be used to hold gears during timing system service.
- Essential tool for many timing belt, pump adjustment and engine timing applications.
- Strong and easy to grip.



MULTI-LOCK TOOL

PART NUMBER: 91009

Gates Multi-Lock Tool is used to lock dual overhead cam sprockets in place during a timing belt replacement or service.

- Holds camshaft position while belt is removed.
- Fits onto sprockets and extends to hold sprocket teeth. Incorporates "variable pitch" adjustable arms to fit various diameters and tooth pitches.
- Unique design is fully adjustable to fit numerous applications including diesel injector pump sprockets and sprockets that are positioned closely together, like those on Mitsubishi or GM EcoTec engines.
- Ratchet locking handle provides compact, strong lever action for secure positioning.
- Includes extension bar for wider spaced cams.



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HYDRAULIC TENSIONER PIN SET

PART NUMBER: 91010

Hydraulic timing belt tensioners need to be compressed during service so Gates designed a tool that is a must-have for every technician. Many technicians use a drill bit or Allen wrench to hold tensioners in their compressed state, which can be dangerous and may bend or damage tools.

- Hardened spring steel to hold the strongest tensioners.
- Conveniently mounted on key chain with six different sizes to service a variety of applications.
- Holds certain serpentine belt tensioners and timing chain tensioners in place during service.

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SERPENTINE BELT INSTALLATION TOOL

PART NUMBER: 91209

Time-saving tool provides improved control and reach when installing serpentine belts. Also helps install V-belts and timing belts located in difficult-to-reach areas.

- Dual-pin design enables convenient belt push/pull capability.
- Handle lends easy twisting control of belt in hard-to-reach places.



STRETCH FIT® BELT INSTALLATION TOOL

Gates provides installation tools for Stretch Fit belts, which can be damaged if the right tools are not used.

- Designed to assist in the installation of Stretch Fit belts on certain applications.
- Required for proper installation to avoid damaging the belt.
- Available separately so the technician isn't forced to buy a tool every time a belt is installed, unlike the OE belt.
- Re-usable.
- Installation instructions available online.

PART NO.	DESCRIPTION	
91030	GM, Chevrolet, Cadillac	
91031	Subaru	
91032	Ford	
91086	BMW	
91087	Chrysler, Dodge	
91088	GM, Chevrolet	
91091	Kit (includes all of the above tools in an impact resistant case)	



SERPENTINE RATCHETING WRENCH SET

PART NUMBER: 91011

This handy tool facilitates the speedy release of tension on serpentine belt drives. Reversible, 21-tooth ratcheting heads on each end allow for better tool positioning and more swing than standard serpentine belt wrenches.

- Wrenches are 21-1/2" long; 6" longer than competitive designs for increased leverage.
- Includes eight sizes for maximum application coverage: 13mm, 14mm, 15mm, 16mm, 17mm, 3/8", 1/2" and 3/4."

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MICRO-V® BELT STRAP PULLEY WRENCH

PART NUMBER: 910131



- Specially constructed V-ribbed strap to enhance grip.
- Heavy-duty aluminum alloy handle.
- Highly durable polymer composite locking head.



PRODUCT GRABBER (TELESCOPING POLE)

PART NUMBER: 91233

Allows easy product hanging and retrieval from belt boards that are installed high on walls.

- Telescopic 4' pole, extends to 11'.
- Extra-long 8" hook for extended reaches.



V-BELT AND MICRO-V® BELT LENGTH FINDER

PART NUMBER: 91219

The V and Micro-V $^{\odot}$ belt length finder is designed to easily and accurately measure Micro-V and V-belts. This tool measures the old belt to help determine replacement belt length.

- Featuring an intuitive and robust dual-sided design.
- Capable of measuring Automotive V and Micro-V belts up to 120".
- Measurements for the Micro-V side include inches as well as millimeters.

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KRIKIT V-BELT TENSION GAUGE

PART NUMBER: 91107

Gates Krikit gauges provide a simple and quick way to measure belt tension on V-belts to ensure long belt life and optimal belt drive performance. This easy-to-use gauge is designed for tensioning all automotive V-belts up to, and including, 7/8" top widths.

- Scale reads in pounds and kilograms.
- Measures tension from 30 to 160 lb., and 15 to 75 kg.
- Die-cast aluminum body, nylon indicator arm and pressure pad.
- Fits in pocket with stainless steel pocket clip.

NOTE: Not for use on timing belts.



KRIKIT II V-RIBBED BELT TENSION GAUGE

PART NUMBER: 91132

Gates Krikit II gauges provide a simple and quick way to measure V-ribbed belt tension on passenger cars, light trucks, heavy trucks and buses to ensure long belt life and optimal belt drive performance.

- Bright green pressure pad and indicator arm.
- Calibrated to measure tension from 100 to 320 lb., and 50 to 150 kg.
- Measure belts up to eight ribs in width.

NOTE: Not for use on timing belts.



SONIC TENSION METER

PART NUMBER: 508C

The proper way to check belt tension is to use a tension tester. The Sonic Tension Meter measures the vibration of the belt span and instantly converts the vibration frequency into belt static tension. This is the span vibration method of tensioning belts.

- Suitable for multi-ribbed belts, V-belts and synchronous belts.
- User-friendly, compact, computerised and stores data for repetitive use.
- Non-contact for simple, consistent and accurate tension readings every time.
- Readings are displayed on a LCD screen backlight.

GATES.COM PROFESSIONAL-GRADE TOOLS





ACCESSORY DRIVE HARDWARE KIT

PART NUMBER: 91051



- Detailed descriptions and schematics of each item included inside case cover.
- OE quality components at a discounted price.
- Covers over 60 million vehicles currently in operation.
- Perfect for the shop that needs hardware to finish the job.

PART NO.	SIZE	DESCRIPTION	QTY. IN KIT
91051	Hardware Kit	Tackle Box	1
91051-01	M10 x 15 x 35H	Bolt	5
91051-02	M10 x 15 x 65H	Bolt	5
91051-03	M10 x 15 x 75H	Bolt	5
91051-04	M12 x 15 x 80H	Bolt	5
91051-05	M10 x 15 x 50H	Bolt	5
91051-06	M8 x 10 x 65H	Bolt	5
91051-07	M10 x 15 x 70H	Bolt	5
91051-08	M8 x 10 x 33H	Bolt	5
91051-09	M10 x 15 x 90H	Bolt	5
91051-10	M10 x 15 x 57H	Bolt	5
91051-11	M10 x 15	Nut	5
91051-12	ADP Cap	Сар	3
91051-13	M8DS	Dust Shield	5
91051-14	M10DS	Dust Shield	5
91051-15	10MM	Bushing	5
91051-16	12MM	Bushing	5
91051-19	Long Elbow	Elbow	3
91051-20	Short Elbow	Elbow	2



200 PROFESSIONAL-GRADE TOOLS GATES,COM





ALTERNATOR DECOUPLER PULLEY (ADP) TOOL KIT

PART NUMBER: 91024

This handy tool kit contains all of the tools required for ADP removal and installation. One kit eliminates the need to shop around for hard-to-find tools.

- Reduces service bay downtime that can take a toll on dealer profits.
- Tools are contained in an attractive and durable carrying case for easy organization.
- Includes eight tools designed to remove and replace all vehicles that utilize ADPs found on the road today.

PART NO.	DESCRIPTION
91024-1	H22 x 33T
91024-2	H21 x H28
91024-3	H17 x H19
91024-4	H10

PART NO.	DESCRIPTION	
91024-5	1/2" Drive x H10 Adapter	
91024-6	1/2" Drive x T50	
91024-7	1/2" Drive x S10	
91024-8	1/2" Drive x H8	



COOLANT AND BATTERY REFRACTOMETER

PART NUMBER: 91001

Measuring coolant concentrations is essential to cooling system maintenance. This tool measures concentration of coolant mixture in engine. Place small sample of coolant on lens, then hold lens up to light source. Light bends through liquid, providing an accurate reading on scale.

- Most technicians use hydrometers to test coolant concentration via gravity or floating ball scales.
- Hydrometers must be temperature corrected and may give false readings when testing new, propylene-based coolants.
- Automatically corrects for temperature on both types of coolant (ethylene and propylene glycol) while measuring battery charge levels.



HEAVY-DUTY POWERGRIP® SB CLAMP REMOVAL TOOL

PART NUMBER: 91215

This tool makes removal of PowerGrip® SB clamps easy without damaging the hose. Slip the blade below the clamp and squeeze for easy removal.

- Heavy steel construction.
- Fits all clamp sizes.

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POWERCLEAN™ FLUSH TOOL

PART NUMBER: 91002

Using clean water and compressed air, the PowerClean™ Flush Tool "water hammers" accumulated sludge and scale deposits without the use of harsh chemicals or solvents. It cleans radiators, heat exchangers, hoses and engine blocks more effectively than conventional flushes, maintains system integrity and ensures warranty coverage on replacement parts, including water pumps.

- Patented process uses fixed dimensional control of the air and liquid flow paths.
- Process allows air to pressurize the cleaning fluid to scrub deep into corners and crevices, eliminating trapped debris.
- While the "pulse" is intensified with some limited backpressure, the pressure is immediately regulated to a safe level if a hard blockage exists eliminating the possibility of heater core damage from excessive system pressure.
- Water line backflow preventer.
- Large rubber tip for radiator necks and direct flushing of the engine block.
- Small rubber tip on whip hose for direct access to heater core tube stubs.
- 5/8" and 3/4" heater hose barbs for flushing heater cores or engine blocks.

PART NO.	DESCRIPTION
91002-1	Storage Case with Foam Inserts
91002-2*	Patented Flushing Gun
91002-3*	Small Tip for Heater Core
91002-4*	Large Tip for Radiators
91002-5*	5/8" Heater Hose Connector
91002-6*	3/4" Heater Hose Connector
91002-7*	Whip Hose with Quick Couplers
91002-8*	Supply Hose Backflow Preventer
91002-9	4 1/2" Large Tip for Trucks

*WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

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WATER PUMP SPANNER WRENCH

PART NUMBER: 91060

The Gates 2-1/2" Spanner Wrench adapts to a 3/8" drive ratchet or breaker bar to help you do your job faster and easier. The spanner lets you get a firm grip on the water pump pulley so that you can remove the fan clutch without scratching or galling the pulley or damaging the mating components.

- Fits several Gates water pump pulleys including part numbers 43034, 43037, 45005 and 45010.
- Covers many Chrysler and GM applications.



HOSE CLAMP PLIER SET

PART NUMBER: 91067

Gates hose clamp pliers set includes 3 useful tools to make removing hose clamps easier.

- Cable hose clamp pliers allowing improved access to remove clamps in hard to reach or tight areas.
- Multiple locks to hold the clamp open without needing to maintain pressure on the handle.
- Groves on the arms of the pliers keep the clamp tangs secure during compression.
- Includes traditional hose clamp pliers and heavy duty pick tool.



OUICK-LOK® COUPLING REMOVAL TOOL

PART NUMBER: 91204

For installation and removal of 5/8" and 3/4" heater hose with Quick-Lok connectors.

- Allows fast, easy way to connect replacement heater hose assemblies on passenger cars and light trucks.
- Helps retain connector O-rings so they don't fall out or get damaged.

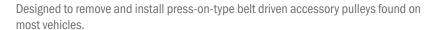
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POWER STEERING AND ALTERNATOR PULLEY KIT

PART NUMBER: 91014



- Kit includes components necessary to remove and install pulleys on pumps with common 3/8-16 threaded shaft.
- Includes unique interchangeable components to remove and install pulleys on GM Quad 4, 3.1L, and Ford 4.6L engines.
- Designed to be used with either hand tools or air impact gun.
- Kit includes special holding bar to stop housing from spinning during use with impact gun.



HOSE CUTTER (HAND-HELD) AND REPLACEMENT BLADES

This lightweight cutter with nylon handles is specially designed to cut fabric-reinforced and PVC hoses without leaving ragged edges.

- Cuts most non-metal reinforced rubber hose.
- Excellent for cutting textile-reinforced hose.
- Blade closes into handle for safety.
- Cutter and blades packaged individually on shrink-wrapped cards.
- Lightweight with nylon handles.



HOSE CUTTER		REPLACEMENT BLADE	
PART NO.	DESCRIPTION	CUTS TO HOSE I.D.	PART NO.
91143	Large I.D. Hose Cutter	3"	91144
91153	Small I.D. Hose Cutter	1-1/2"	91154

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POLARSEAL® II PLIERS

PolarSeal II Pliers are used to crimp clamps on PolarSeal II pinch-clamp style [G46 Series] couplings. Any one of three pliers will get the job done. Each tool is designed with slightly different features.



Ratcheting Plier PART NUMBER: 77953

The ratcheting plier features a no-release function. Once a crimp is started the plier does not release until the crimp is complete.



Straight Jaw Plier

PART NUMBER: 77952

The straight jaw plier is an economical crimping option. This plier works best when there are no obstructions to hinder gripping the clamp or completing the crimp.



Notched Jaw Plier

PART NUMBER: 77951

The notched jaw plier is designed for the hard-to-reach places. Works well if obstructions prohibit the use of straight jaw pliers. Use either side or the front of this plier to make the crimp.



STAINLESS STEEL DIGITAL CALIPER

PART NUMBER: 78241

This sturdy stainless steel caliper enables crimp diameters to be easily deciphered from the digital readout for easy determination of crimp tolerances.

- Caliper features an easy-to-read LCD screen clearly displaying the crimp diameter digitally.
- Capable of four-way measurement: inside, outside, depth and step.
- Constructed of hardened stainless steel and comes in a handy, protective carrying case.

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SURELOK™ QUICK-RELEASE PLIERS

SureLok™ Quick-Release Pliers make removing SureLok couplings quick and easy. SureLok couplings are simple to install, but their tight placement and strong seal can make removal difficult. These Quick-Release Pliers allow for the removal of push-to-connect couplings from the tubing with just one hand in seconds.

- Straight and 90° offset head options.
- Easy one-hand operation allows user to get into tight areas.
- Offers substantial time and labor savings.
- Sold as single units or a four-pack in a handy carrying case (Part No. 91017).

For Tubing Outside Diameters, use:



PART NUMBER: 91017

ANGLED VERTICAL Part No. 91021 Part No. 91020 Part No. 91023 Part No. 91022 **Small Pliers** Large Pliers **Small Pliers** Large Pliers 3/8" 3/8" 1/8" 1/8" 5/32" 1/2" 5/32" 1/2" 1/4" 5/8" 1/4" 3/4" 5/16" 5/16" 3/8" 3/8"

HYDRAULIC COUPLING TEMPLATES

PART NUMBER: 428-7108

These templates provide a fast and easy way to measure North American threads, International threads, flange ends, seat angles (37° and 45°) and hose I.D.

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NOTHING BEATS COMPLETE

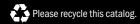
When it comes to the serpentine system, the right repair is the complete one. The belt, tensioner and pulley wear together and should be replaced together. The Gates® Complete Serpentine Kit includes all the parts in one box, plus a lifetime warranty on parts and labor. Nothing beats that for peace of mind.

COMPLETE REPAIRS PREVENT FUTURE BREAKDOWNS.
BE SYSTEM SMART WITH GATES KITS.









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