



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Parker Village Marine Water Desalination Systems



Village
Marine

ENGINEERING YOUR SUCCESS.



Parker Village Marine

Forward Thinking in Reverse Osmosis Engineering

For over 30 years, Parker Village Marine (VMT) has developed innovative water desalination and purification plants for some of the most challenging environments – the middle of the ocean, 800 feet below the sea, offshore oilrigs, deserts, and disaster areas.

NASA and FEMA relied on Parker Village Marine to develop a self-contained reverse osmosis plant for its disaster relief program. The Navy asked Parker Village Marine for water so pure, it could be used with the nuclear reactors on its submarines. Catalina Island sought our help to ensure a steady water supply in drought conditions. When Hurricane Katrina hit New Orleans, the Army counted on us to keep a hospital open. The research required for high-profile government projects has enabled Parker Village Marine engineers to develop innovative ways to produce the most reliable RO systems in the world.

Always ready to respond.

Parker Village Marine's entire team is prepared to meet the needs of its customers and distributors at any time. Parker Village Marine's flexibility quickly takes ideas from concept to reality and enables the development of field-proven systems to meet the requirements of any application, in any environment, around the world.

A legacy of performance.

Parker Village Marine received the prestigious Aegis Excellence Award as the only RO supplier to excel in quality and delivery, surpassing U.S. Navy expectations. After the first Parker Village Marine reverse osmosis system

was designed and installed on the U.S. Navy Submarine USS Dolphin in 1983, the systems had to undergo rigorous testing before additional installations could be approved. Passing every test, Parker Village Marine's plants worked flawlessly, 24/7 for 90 days straight.

Fresh water for every vessel.

Our customers enjoy all of the luxuries of home – drinking water, ice, showers, dishwashers, and laundry – onboard. A complete range of reliable, power-efficient watermakers for sailboats, motorboats and yachts, as well as custom equipment, is available for quick delivery and allows our customers to cruise with confidence.

Without the noise.

Parker Village Marine's experience in designing RO systems for Navy submarines has helped us create the quietest leisure and commercial watermakers on the market. A five-plunger pump, a pressure regulation system and other carefully chosen components are engineered in as standard in many of the systems to reduce noise and vibration.

The ultimate barrier to impurities.

Salts, minerals and organics are no match for Aqua Pro® spiral wound membranes, which remove impurities from seawater, brackish water, fresh water and tap water. Nano and ultra filtration membranes are also available. Proven processes are used in the design, development, testing and manufacturing of Aqua Pro spiral wound membranes. This dedicated attention to detail includes using the

highest grade of polyamide thin-film composite materials for standard and custom membranes to ensure their ultimate performance and integrity. Parker Village Marine also manufactures cartridge and string filters to fit standard and custom filter housings.

Quality at the source.

The superior quality components that go into Parker Village Marine systems ensure that each one is built to the highest standards for safety, maintainability and reliability. The highest grades of raw materials are precisely machined and thoroughly tested to exacting customer requirements and industry specifications. By controlling the source and processes from the raw material to the final product, lead times are reduced to achieve on-time delivery, every time.

Providing the most innovative and reliable RO purification systems for seawater, brackish water and tap water, from energy-saving 145 GPD watermakers to high-performance 250,000 GPD system is what has established Parker Village Marine as a leader in industry.

Meeting the fresh water requirements of military ships to working marine vessels to luxury yachts to seaside properties has always been the mission of Parker Village Marine. A global leader in the innovative application of reverse osmosis technology.



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WARNING – USER RESPONSIBILITY

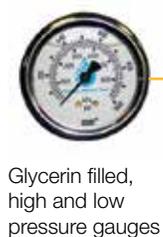
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- This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.
- The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.
- To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

The **Inside** Story



STW Series Watermaker



Glycerin filled, high and low pressure gauges



Integral, closed loop cleaning system

Corrosion resistant, powder coated, aluminum frame



Touchscreen panel allows complete watermaker control at your fingertips. Remote control panel is included as standard equipment.

To maintain peak performance always use genuine Parker Village Marine replacement parts. We reserve the right to change our specifications or standards without notice.



High pressure bypass valves, 316 Stainless Steel

Corrosion resistant fresh water and brine flow meters



Industrial Strength reinforced high pressure hose with Titanium wetted fittings



Industrial grade, pleated pre-filtration



Custom made seawater membranes



Aqua Pro, Triplex Titanium pump for low vibration and low noise with unsurpassed corrosion resistance.



TRUE 316 Stainless Steel high pressure regulator - Eliminates risk of over pressurization

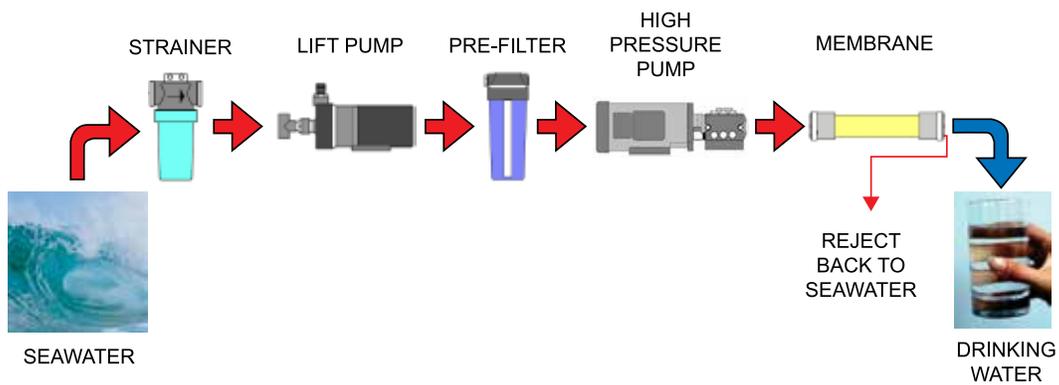


Fiberglass pressure vessels



Corrosion resistant, machined nylon end caps and manifolds

Reverse Osmosis System





Stowaway Series

400-800 GPD (1,500-3,000 LPD)
For powerboat and ocean yachts applications



Village Marine - Stowaway
(See bulletin no. 7861)

The Stowaway Series offers fresh water independence for ocean crossings, extended fishing trips or cruising where dock supplies are unreliable.

The Stowaway Series features a semi modular frame format, which maximizes installation flexibility. The frame is compact and can be above or below water line. The boost pump and prefilters are supplied as loose items. The watermaker can be operated and monitored from the electronic remote control.

Key Features:



Aqua Pro® Pump 708-3

Triplex Titanium pump for low vibration and low noise with unsurpassed corrosion resistance.



Remote Control Panel

Touchscreen panel allows complete watermaker control at your fingertips. Remote control panel is included as standard equipment.

Little Wonder Series

145-200 GPD (550-760 LPD)

For sailboat applications



Parker VMT-LWM Modular
with Pump/Motor

The Little Wonder (LW) is the watermaker of choice for the experienced sailor. The Little Wonder comes equipped with a corrosion resistant, single piston, belt driven, low RPM high-pressure pump. Result is the most reliable, field serviceable, quiet, efficient and economical source of fresh water available in the industry. Available in modular configurations with water output ranging from 145 to 200 GPD.

The modular Little Wonder watermakers are designed for cruising sail boats where space is limited and reliability is required.

(See bulletin no. 7829)

Optional Accessories



Optional salinity monitor and diversion valve available

(See bulletin no. 7972)



Optional remote instrument panel available for modular units

Sea Quencher Series

145-200 GPD (550-760 LPD)

For powerboat and sailboat applications



Parker Village Marine Sea Quencher (SQ) Series offers durable, high value desalination systems. Driven by AC or DC power, the Sea Quencher models use low electrical consumption in relation to their water production. The SQ Series is a best value for the investment and are in operation around the world.

SQ 200 Sea Quencher (760 LPD)

(See bulletin no. 7829)



Pure Water Vertical Series

800-2,000 GPD (3,000-7,500 LPD)

For large yachts, commercial marine applications and seaside properties



VMT-PWV2000 Vertical Frame System with front door open for maintenance access. (7,500 LPD)

(See bulletin no. 7913)

With the same high quality features of the horizontal Pure Water Series, the vertical frame Pure Water Series offers a more compact foot print for flexible installation options and optimal use of space. All components are on a single skid, in one frame, and include a multi-media pre-filter and flush system.

If the requirement is high volume potable water, delivered on a reliable basis, in a harsh environment, the Village Marine Pure Water Series in either configuration meets the requirements.



PWV2000
Door closed
(7,500 LPD)

LT Series

400-1,800 GPD (1,500-6,750 LPD)
For power boats, sailboats and commercial vessels applications



LT 800 (3,000 LPD) (See bulletin no. 7935)

Key Features:



Models 400 and 600 can be configured with membranes mounted on top or back of frame.



Optional Remote with water quality indicator, comes with 50 ft. cable. P/N 90-0119

The LT desalinator offers fresh water independence for ocean crossings, extended voyages or cruising where dock water supplies are unreliable.

The units feature a semi modular frame format, for installation flexibility. The frame is compact and can be above or below the water line. The boost pump and prefilters are supplied as loose items.





Pure Water Series

400-2,000 GPD (1,500-7,500 LPD)



VMT-PW 400-2,000 GPD (1,500-7,500 LPD)
Horizontal Frame System (See bulletin no. 7783)



VMT-PW 400-2,000 GPD (1,500-7,500 LPD)
Semi-Modular System
(See bulletin no. 7783)

Manual Fresh Water Flush

The Pure Water (PW) Series is designed to provide installation flexibility, superior performance, and extended service life in the most rugged conditions. Designed for 24/7, continuous-duty applications, where reliable fresh water supply is critical.

The fully framed unit is standard, however semi-modular and fully modular versions are also available.

Key Feature



At the core of each PW series watermaker are the AquaPro® high rejection seawater membranes to ensure high quality potable water supply.

Pure Water Series

3,000-20,000 GPD (11,000-75,500 LPD)



VMT-PW 3,000-20,000 GPD
(11,000-75,500 LPD)
Horizontal Frame System (See bulletin no. 7831)

Key Feature



At the core of each PW series watermaker is the Aqua Pro 3 or 5 plunger titanium high pressure pump.

The PW Series reverse osmosis desalination systems are the preferred choice of fresh water generating equipment for the most discriminating marine operators (such as major oil companies, The United States Navy, The United States Coast Guard and The Cousteau Society).

Thousands of installations have proven this series to be the most reliable on the market. They are designed to provide performance and longevity under the most rugged conditions.

Modular Configuration



LTM Series Modular Watermaker

500-1,800 GPD (1,800-6,800 LPD)



(See bulletin no. 7986)

The LTM Series offers high quality Parker Village Marine engineered components with straightforward manual operation. Driven by AC motors (from genset power), the modular configuration comes in ready to mount modules for flexible installation options. Integral to every LTM unit are a stainless steel pressure regulator and bypass valve.

Key Feature



Optional salinity monitor and diversion valve system for water quality assurance.

Salinity monitor and diversion valve

(See bulletin no. 7972)



LT Series

3000-7000 GPD (11,000-26,000 LPD)
Practical and reliable fresh water supply



(See bulletin no. VMT0001)

The LT desalinator offers a simple watermaker package with a compact frame and small footprint.

Parker VMT LT systems have a base frame only 40" wide x 33" deep, allowing a high capacity and high quality watermaker installation in a tight space.

Key Feature

Installation Flexibility



LT units can be supplied with an optional media filter system. Also membrane rack can be mounted horizontally or as a module for remote bulkhead mounting.

(See bulletin no. VMT0001)

Bilgewater Membrane Separator

BMS-350, BMS-500,
BMS-1000, BMS-2000,
and BMS-2500

Parker VMT's oily water separators meet the IMO Resolution MEPC 107(49). Parker VMT units are an advanced three-stage system optimizing the separation and removal of free and emulsified oils.

Heavy duty construction, corrosion resistant materials, permanent oil attractant media, quiet operation, automatic diversion valves and advanced Parker VMT membrane technology result in an easy to use, fully automated, high quality, affordable solution to meet your bilgewater treatment needs. (See bulletin no. 7882)



Key Features

- USCG Certified to meet IMO MEPC 107(49) regulations
- MEPC 107(49) certified oil content monitor included
- Advanced three-stage design for maximum oil separation
- Fully automated system
- Parker VMT membrane technology specifically designed for bilgewater treatment
- System employs a self-cleaning cycle for prolonged membrane service life
- Certified compliant with European Union Marine Directive 96/98/EC section A.1/2.1 Oil Filtering Equipment

Bilgewater Adsorbent Separator

BAS-500, BAS-1000,
BAS-2000, and BAS-2500

Heavy duty construction, corrosion resistant materials, permanent oil attractant media, quiet operation, automatic diversion valves and advanced oil adsorbent media technology result in an easy to use, high quality, affordable solution to meet your bilgewater treatment needs. (See bulletin no. VMT0014)



Key Features

- USCG Certified to meet IMO MEPC 107(49) regulations
- MEPC 107(49) certified oil content monitor included
- Advanced three-stage design for maximum oil separation
- Automated oil flush system
- Compact design minimizes installation requirement
- Certified compliant with European Union Marine Directive 96/98/EC section A.1/2.1 Oil Filtering Equipment



Offshore PW-XP Series

Explosion proof desalinators

3,000-20,000 GPD (11,000-75,500 LPD)



(See bulletin no. 7857)

Explosion proof configuration available:

- NEC rating, class I, division I, group D
- IEC 60079-10 Electrical apparatus for explosive gas atmospheres
Zone 2 hazardous area, gas group IIA,
temp class T3

The PW-XP reverse osmosis desalination systems are based on the very popular PW series. They are the preferred choice of fresh water generating equipment for the most discriminating marine operators (such as major oil companies, the US Navy, the US Coast Guard and the Cousteau Society).

The PW series represents years of refinement to packaged RO system design, and provides a better value over custom designed systems.

Key Feature



Explosion proof control box with E-stop and metallic cable glands; connected with armored cables

Sea Water Series

24,000-40,000 GPD (91,000-150,000 LPD)

For offshore rigs, work camps, seaside properties and cruise ships



SW Series
Front side view



Right side view



Back side view

The Sea Water Series reverse osmosis desalination systems are designed to provide potable water in demanding environments. Its rugged, efficient design allows high through-put of water with minimum electric power use. The Sea Water Series systems are quiet because the mounting of the motors and Aqua Pro pumps isolates and minimizes vibration transfer to the vessel's hull or the RO system enclosure.

Parker Village Marine - SW32 model is installed on a single skid with two complete, independent RO systems. The two trains can run together or can be operated on a duty/stand by basis. Top quality components, manufactured by Parker Village Marine, provide maximum corrosion resistance. Straight-forward, easy to understand controls, result in reliable operation. (See bulletin no. 7832)

CC Series

2,000-26,000 GPD

(7,500-100,000 LPD)

For Offshore MODU, FSO, FPSO, and drill ships



CC-3000

The CC Series watermakers provide engineered solutions to meet customer specifications in harsh offshore applications. Each one is configured with all accessories in a single box frame. Various pre-treatment and post-treatment options are available.

(See bulletin no. 7982)

Key Feature



Aqua Pro Pump 5 Plunger Titanium Head

Disaster Relief



Portable Container Mounted Watermaker

LB-20K



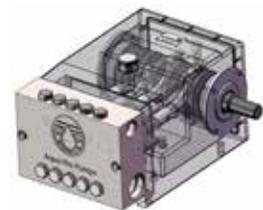
Portable Container Mounted Watermaker LB-20K
(See bulletin no. VMT0006)

Parker Village Marine LB-20K is a complete watermaker system to convert seawater, brackish water or contaminated water into drinking water. Comes complete with generator, supply pump and storage tanks to go into operation quickly. Standard 20 foot ISO container can be transported by road, rail or by sea. Ready to deploy wherever temporary or emergency potable water is required.

Key Features



Collapsible storage tanks



Titanium head 5P70 high pressure pump

Parker Ultra Filter

RUF-25 and RUF-30



RUF-25 shown with solar panels

Parker Village Marine RUF units provide fresh water filtration that is truly portable and independent. The RUF-25 or RUF-30 will process 25 or 30 gallons per hour from 12 volt vehicle auxiliary power (cigarette lighter). Optional lightweight folding solar power version provides 25 gallon per hour production from sunlight. Water treatment includes 20 micron sediment filtration, carbon filtration, ultrafiltration membranes and ultraviolet radiation.

Note: the RUF systems are not for seawater or brackish water applications.

(See bulletin no. VMT0028)

Key Features



Solar power option panels fold for stowage on top of the backpack frame



RUF-30 Hard shell case provides convenient storage and transport

- ▶ RUF-25 with solar
Setup time is 5 to 10 minutes after deployment



MIL-SPEC Reverse Osmosis Desalination Systems

For over 30 years Parker Village Marine has been a supplier of RO desalination equipment to the US Navy and US Coast Guard. We are proud that our steadfast commitment to the design, engineering and manufacture of the worlds most advanced RO equipment has helped improve

the quality of life while underway for the men and women who serve. From potable water for drinking and showers to high-purity permeate for various shipboard applications, Parker Village Marine is your choice for fresh water from the sea.

Our in-house design, manufacturing and testing capabilities coupled with our synergistic family of companies are unequalled in the industry and uniquely position Parker Village Marine to provide the toughest most reliable MIL-SPEC RO equipment.

USN surface fleet installations

- ARLEIGH BURKE CLASS (DDG)
- SPRUANCE CLASS (DD)
- TICONDEROGA CLASS (CG)
- TARAWA CLASS (LHA)
- AVENGER CLASS (MCM)
- OSPREY CLASS (MHC)
- FREEDOM CLASS (LCS)
- CYCLONE CLASS (PC)
- SAN ANTONIO CLASS (LPD 24 AF)

USN submarine fleet installations

- LOS ANGELES CLASS (SSN)
- OHIO CLASS (SSBN / SSGN)
- SEAWOLF CLASS (SSN)
- VIRGINIA CLASS (SSN)

USN carrier fleet installations

- ENTERPRISE CLASS (CVN-65)
- GERALD R. FORD CLASS (CVN-78)

USCG installations

- POLAR CLASS (WAGB)
- JUNIPER CLASS (WLB)
- KEEPER CLASS (WLM)
- MARINE PROTECTOR CLASS (WPB)
- ISLAND CLASS (WPB)
- RELIANCE CLASS (WMEC)
- FAMOUS CLASS (WMEC)

Design engineering standards

- MIL-STD-901 (Shock)
- MIL-STD-167 (Vibration)
- MIL-STD-461 (EMI)

Quality assurance

- MIL-I-45208A
- T9074-AS-GIB-010/271
- Dye Penetrant
- Magnetic Particle
- Ultrasonic

Fabrication and weld standards

- NAVESSEA
S9074-AH-GIB-010/22

- NAVESSEA
S9074-AR-GIB-010/278
- NAVESSEA
S9074-AQ-GIB-101/248

Materials and processes

- GMAW/GTAW
- NiCu 400
- Titanium
- Hastelloy C276
- CuNi (70/30 90/10)
- A36 Carbon Steel
- Aluminum
- 300 Series SS

Technical support

Technical assistance personnel who are factory trained to support the US Navy and USCG fleets.

(See bulletin no. 7845)





AquaPro® Membranes and Filters

Unmatched design capabilities

Proven manufacturing and quality processes

Salts, minerals and organics are no match for Aqua Pro spiral wound membranes. They remove impurities from sea water, brackish water, fresh water and tap water.

Selecting the highest grade of materials and thoroughly testing their performance and integrity, results in unmatched membrane quality and efficiency. Flexibility in design and manufacturing capabilities allows maximum quality control and quick response to unique, custom fabrication.

Pleated filters are designed for reverse osmosis application and offer superior service life to wound or polyspun cartridges. The cartridge size to flow rate ratio is lower than most filters on the market. A wide range of in-stock sizes and micron ranges fit most standard filter housings on the market today.

(See bulletin no. 7905)



AquaPro® Pumps

Innovative engineering
Solid material choices

Quiet and durable, Aqua Pro Titan Series Pumps are dependable and specifically designed for reverse osmosis applications. Specific pump components are made of titanium which is impervious to sea water corrosion. The positive-displacement pump design uses less energy than most pumps. (See bulletin no. 7885)



Titan Series
High pressure titanium pump
708-3



Titan Series
High pressure
titanium pump
708-5



Titan Series
High pressure titanium pump
3P20



Titan Series
High pressure titanium pump
5P50HD and 5P100HD



Titan Series
High pressure titanium pump
10P200HD

Key Features

- Titanium pump heads ensure reliable operation and minimal maintenance.
- Titanium fluid ends and titanium-backed nylon valves are impervious to sea water corrosion.
- Heavy-duty industrial drive end and corrosion/wear-resistant plungers extend service life in high pressure applications.
- The combination plunger pump and pressure regulation design reduces noise and vibration to provide quiet, smooth operation.



Spares and Consumables



Parker Village Marine consumables and spare parts are stocked at Parker marine distributors worldwide. Protect your investment and warranty by using only authorized spares.

(See bulletin no. 7905)

Stowaway Watermaker Master Control Panel



(See bulletin no. 7972)

Parker Village Marine brings customers a new level of watermaker control and ease of operation. The Parker Watermaker Control Panel delivers advanced Parker technology at your fingertips.

Available now on the Stowaway series of watermakers from Parker Village Marine. (See bulletin 7861)

Pressure Vessel Assemblies



Parker Village Marine RO membrane pressure vessels feature non-metallic wetted surfaces for excellent corrosion resistance. Simple end plug design allows quick removal for element servicing. If the size you require is not shown please contact us for custom builds.

(See bulletin no. 7898)

Ultraviolet Light Germicidal System



Parker Village Marine Ultraviolet Light Germicidal Systems effectively kill bacteria and viruses with a 99.9% efficiency.

Built to last, the VMS-3 is constructed with a stainless steel housing, high purity quartz flow tube and high output, long life bulb.

The VMS-3 is typically installed in the distribution system or near the point of use to ensure safe, pure drinking water. There are no chemicals added to the water and no chemical aftertaste.

(See bulletin no. 7909)

Commercial Media Filtration Systems



Extend micron filter life and reduce maintenance cost by adding a commercial media filter. Designed for commercial operation but practical for private operation.

The media filter uses a back-washable, reusable media, which effectively removes particulate matters down to 10 microns. System comes complete with boost pump, control box, pressure gauges and valves for easy installation and operation.

(See bulletin no. 7868)

Filter Housings



◀ (See bulletin no. 7940)

100-X

30-S

Parker Village Marine offers fiberglass and stainless steel (SS316) filter housings specifically designed for seawater use.

Simple but secure closure systems allow quick cartridge change. Powder coated shells offer superior corrosion resistance. Fasteners and clamps are stainless steel.

(See bulletin no. 7914)



RMF Remineralizer Systems



Parker Village Marine Remineralizer Systems offer pH neutralization of RO water and are specifically engineered to operate with Village Marine PW and SW Series Watermakers. The media restores a buffer capacity to raise pH and reduce fresh water “aggressiveness” against metal pipes and fixtures.

(See bulletin no. 7903)

IMF Media Filtration Systems



Parker Village Marine Media Filtration Systems offer multi-media performance and are specifically engineered to operate with Village Marine PW Series Watermakers. The media layers are optimized to remove particulate matter from the feed stream ahead of the micron filtration system.

(See bulletin no. 7862)

Racor Products and Systems



Fuel 7529

Key Products

- Diesel Spin-on
- Pump Cartridge
- Pump Spin-on
- Turbine Series
- Biodiesel Systems
- Alternative Fuel
- Electric Heaters
- Service Indicators
- Bowl Upgrade Kits



Air 7539

Key Products

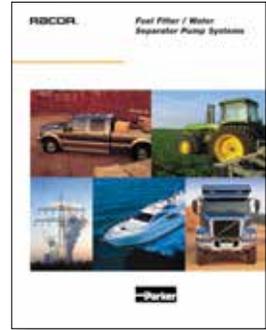
- ECO Spin-on Systems
- Ember Separators
- Pamic High Capacity
- Single Stage Dynacell
- Heavy-Duty Standard Air Filters Small/Medium Applications
- Pre-Cleaners
- Replacement Elements
- Service Kits



Crankcase 7790

Key Products

- Closed Crankcase
- Open Crankcase
- Hose Kits
- Marine Air Filters
- Hose Adapters
- Bulk Hose
- Conversion Kits
- CCV Heater Kits
- Filter Gauge
- Tap Sleeves



Pump 7683

Key Products

- Smart Pump System
- Integrated Filter/Separator Pump
- Fuel Conditioning Modules
- Turbine Series Electric Primer Pump Kits
- Manual Primer Pump



Fuel Dispensing 7537

Key Products

- Filter Cartridges
- Filter Vessels
- FBO Filters
- RVFS Series Vessels
- Microfilter Vessels
- Industrial Filter/Water Separator Vessels
- Fuel Monitors
- Fuel Conditioning



Fuel Additives 7518

Key Products

- Biodiesel Challenges
- Diesel Performance Plus+
- Diesel Conditioner Plus+
- Diesel Biocide
- Diesel Winter Plus+
- Gasoline Conditioner Plus+



Lubrication Filtration 7460

Key Products

- Integrated Oil/Fuel Systems
- Media Research
- Bypass Filtration
- Hydraulic Filtration
- Oil Analysis Kit
- Par Fit Oil Filters
- Engine Oils



Sentinel Protection 7330

Key Products

- Master Control
- CPV Coolant Valve
- SVK Fuel Solenoids
- STV Self Test Valve
- Orifice Selection
- Testing
- Heat Sentinel
- Troubleshooting

Parker's Motion & Control Technologies

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further info call 1 800 C-Parker (1 800 272 7537).



AEROSPACE

Key Markets

- Aircraft engines
- Business & general aviation
- Commercial transports
- Land-based weapons systems
- Military aircraft
- Missiles & launch vehicles
- Regional transports
- Unmanned aerial vehicles

Key Products

- Flight control systems & components
- Fluid conveyance systems
- Fluid metering delivery & atomization devices
- Fuel systems & components
- Hydraulic systems & components
- Inert nitrogen generating systems
- Pneumatic systems & components
- Wheels & brakes



CLIMATE CONTROL

Key Markets

- Agriculture
- Air conditioning
- Food, beverage & dairy
- Life sciences & medical
- Precision cooling
- Processing
- Transportation

Key Products

- CO₂ controls
- Electronic controllers
- Filter driers
- Hand shut-off valves
- Hose & fittings
- Pressure regulating valves
- Refrigerant distributors
- Safety relief valves
- Solenoid valves
- Thermostatic expansion valves



ELECTROMECHANICAL

Key Markets

- Aerospace
- Factory automation
- Food & beverage
- Life science & medical
- Machine tools
- Packaging machinery
- Paper machinery
- Plastics machinery & converting
- Primary metals
- Semiconductor & electronics
- Textile
- Wire & cable

Key Products

- AC/DC drives & systems
- Electric actuators
- Controllers
- Gantry robots
- Gearheads
- Human machine interfaces
- Industrial PCs
- Inverters
- Linear motors, slides and stages
- Precision stages
- Stepper motors
- Servo motors, drives & controls
- Structural extrusions



FILTRATION

Key Markets

- Food & beverage
- Industrial machinery
- Life sciences
- Marine
- Mobile equipment
- Oil & gas
- Power generation
- Process
- Transportation

Key Products

- Analytical gas generators
- Compressed air & gas filters
- Condition monitoring
- Engine air, fuel & oil filtration & systems
- Hydraulic, lubrication & coolant filters
- Process, chemical, water & microfiltration filters
- Nitrogen, hydrogen & zero air generators



FLUID & GAS HANDLING

Key Markets

- Aerospace
- Agriculture
- Bulk chemical handling
- Construction machinery
- Food & beverage
- Fuel & gas delivery
- Industrial machinery
- Mobile
- Oil & gas
- Transportation
- Welding

Key Products

- Brass fittings & valves
- Diagnostic equipment
- Fluid conveyance systems
- Industrial hose
- PTFE & PFA hose, tubing & plastic fittings
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects



HYDRAULICS

Key Markets

- Aerospace
- Aerial lift
- Agriculture
- Construction machinery
- Forestry
- Industrial machinery
- Mining
- Oil & gas
- Power generation & energy
- Truck hydraulics

Key Products

- Diagnostic equipment
- Hydraulic cylinders & accumulators
- Hydraulic motors & pumps
- Hydraulic systems
- Hydraulic valves & controls
- Power take-offs
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects



PNEUMATICS

Key Markets

- Aerospace
- Conveyor & material handling
- Factory automation
- Food & beverage
- Life science & medical
- Machine tools
- Packaging machinery
- Transportation & automotive

Key Products

- Air preparation
- Compact cylinders
- Field bus valve systems
- Grippers
- Guided cylinders
- Manifolds
- Miniature fluidics
- Pneumatic accessories
- Pneumatic actuators & grippers
- Pneumatic valves and controls
- Rodless cylinders
- Rotary actuators
- Tie rod cylinders
- Vacuum generators, cups & sensors



PROCESS CONTROL

Key Markets

- Chemical & refining
- Food, beverage & dairy
- Medical & dental
- Microelectronics
- Oil & gas
- Power generation

Key Products

- Analytical sample conditioning products & systems
- Fluoropolymer chemical delivery fittings, valves & pumps
- High purity gas delivery fittings, valves & regulators
- Instrumentation fittings, valves & regulators
- Medium pressure fittings & valves
- Process control manifolds



SEALING & SHIELDING

Key Markets

- Aerospace
- Chemical processing
- Consumer
- Energy, oil & gas
- Fluid power
- General industrial
- Information technology
- Life sciences
- Military
- Semiconductor
- Telecommunications
- Transportation

Key Products

- Dynamic seals
- Elastomeric o-rings
- EMI shielding
- Extruded & precision-cut, fabricated elastomeric seals
- Homogeneous & inserted elastomeric shapes
- High temperature metal seals
- Metal & plastic retained composite seals
- Thermal management

VMT Sales Contacts

Argentina

Buenos Aires
+54 3327 44 4129
rwall@parker.com

Australia

Castle Hill
+61 2 9634 5104
RexBarry@parker.com

Austria

Wiener Neustadt
+43 (0) 644 820 8799
parker.austria@
parker.com

Azerbaijan

Baku
+ 994 50 2233 458
parker.azerbaijan@
parker.com

Bahamas

Miami, FL
305-588-6679
operez_jr@parker.com

Bahrain

Jebel Ali - Dubai - UAE
+971 4 8127100
+971 4 8127114
+971 50 6370478
khalid.samhan@
parker.com

Belgium

Nivelles
+32 0 67 280 900
parker.belgium@
parker.com

Brazil

P: +55 12 4009-3500
M: +55 12 8125-8876
vinicius.patricio@
parker.com

Canada

Missauga Ontario
209 247 6038
ed.wiebe@parker.com

Caribbean Region

Miami, FL
operez_jr@parker.com

Chile

anny.haberland@
parker.com

China

Shanghai
86 21 2899 5000
JamesWang@
parker.com

Colombia

Bogota, Colombia email
fanzola@parker.com
Tel: 57 310 618 0951

Czech Republic

Klecany
420 284 083 111
parker.czechrepublic
@parker.com

Denmark

Ballerup
+45 21 6158 35
parker.denmark@
parker.com

Eastern Europe

Wiener Neustadt
+43 0 2622 23501 900
parker.easteurope@
parker.com

Finland

Vantaa
358 (0)20 753 2500
parker.fi nland@
parker.com

Germany

Kaarst
+49 (0)2131 4016 0
parker.germany@
parker.com

Greece

Athens
+30 210 933 6450
parker.greece@
parker.com

Hong Kong

Hong Kong
852 2428 8008
albertcheung@
parker.com

India

Mumbai
+91 22 6513 7081-85
santosh.shetty@
parker.com

Italy

Corsico
+39 02 45 19 21
parker.italy@
parker.com

Japan

Tokyo
+81 3 6408 3901
kishio.hosaka@
parker.com

Kazakhstan

Almaty
+7 7272 505 800
parker.easteurope@
parker.com

Malaysia

Kuala Lumpur
+603 7849 0845
ryan.chew@parker.com

Mexico

Monterrey
+52 1 811 066 0804
vcardenas@
parker.com

New Zealand

Auckland
+64 9 574 1744
armin.howard@
parker.com

Norway

Oslo
+47 64 91 10 00
parker.norway@
parker.com

Panama

francisco.lopez@
parker.com

Phillipines

Manilla
+63 917 84 85945
flabayan@parker.com

Poland

Warsaw
+48 502 378 178
parker.poland@
parker.com

Portugal

Leca da Palmeira
+351 22 999 7360
parker.portugal@
parker.com

Russia

Moscow
+7 495 645-2156
parker.russia@
parker.com

Singapore

Singapore
+65 6887 6300
Sheila.lim@
parker.com

South Africa

Kempton Park
+27 (0)11 961 0700
parker.southafrica@
parker.com

South Korea

Seoul
+82 31 359 0890
jae.cheon.kim@
parker.com

Spain

Madrid
+34 629 903 410
parker.spain@
parker.com

Sweden

Spanga
+46 (0)8 59 79 50 00
parker.sweden@
parker.com

Switzerland

Etoy
+41 (0) 21 821 02 30
parker.switzerland@
parker.com

Taiwan

Taipei
886 2 2298 8987
clark.lee@parker.com

Thailand

Bangkok
rserna@parker.com

The Netherlands

Oldenzaal
+31 (0)541 585 000
parker.nl@parker.com

Turkey

Istanbul
+90 216 4997081
parker.turkey@
parker.com

United Arab Emirates

Dubai
97148127100
parker.me@
parker.com

United Kingdom

Dewsbury
apay@parker.com

United States

VMT
Technical Services
Gardena, CA
1 310 516 9911
vmt@parker.com

Venezuela

Caracas
+58 212 238 5422
glezama@parker.com

Vietnam

Cell (84) 906 33 00 88
norman.lim@parker.com

Worldwide Filtration Manufacturing Locations

North America

**Compressed Air Treatment
Filtration & Separation/Balston**
Haverhill, MA
978 858 0505
www.parker.com/balston

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Holly Springs, MS
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419 644 4311
www.parker.com/hydraulicfilter

Laval, QC Canada
450 629 9594
www.parkerfarr.com

**Process Filtration
donnick hunter Process Filtration**
Oxnard, CA
805 604 3400
www.parker.com/processfiltration

Madison, WI
608 824 0500
www.scilog.com

Phoenixville, PA
610 933 1600
www.parker.com/processfiltration

**Aerospace Filtration
Velcon Filtration**
Colorado Springs, CO
719 531 5855
www.velcon.com

Europe

**Compressed Air Treatment
donnick hunter Filtration & Separation**
Gateshead, England
+44 (0) 191 402 9000
www.parker.com/dhfn

Parker Gas Separations
Etten-Leur, Netherlands
+31 76 508 5300
www.parker.com/dhfn

Hiross Zander
Padova Business Unit
Padova, Italy
+39 049 9712 111
www.parker.com/hzd

Hiross Zander
Essen Business Unit
Essen, Germany
+49 2054 9340
www.parker.com/hzd

**Engine Filtration &
Water Purification
Racor**
Dewsbury, England
+44 (0) 1924 487 000
www.parker.com/rfde

Racor Research & Development
Stuttgart, Germany
+49 (0)711 7071 290-10
www.parker.com/rfde

**Hydraulic Filtration
Hydraulic Filter**
Arnhem, Holland
+31 26 3760376
www.parker.com/hfde

Ujala Operation
Ujala, Finland
+358 20 753 2500
www.parker.com/hfde

Condition Monitoring Centre
Norfolk, England
+44 (0) 1842 763 299
www.parker.com/hfde

Parker Kittiwake
West Sussex, England
+44 (0) 1903 731 470
www.kittiwake.com

Parker Procal
Peterborough, England
+44 (0) 1733 232 495
www.kittiwake.com

**Process Filtration
donnick hunter Process Filtration**
Birtley, England
+44 (0) 191 410 5121
www.parker.com/processfiltration

Parker Twin Filter BV
Zaandam, Netherlands
+31(0)75 655 50 00
www.twinfilter.com

Asia Pacific

Australia
Castle Hill, Australia
+61 2 9634 7777
www.parker.com/australia

China
Shanghai, China
+86 21 5031 2525
www.parker.com/china

India
Navi Mumbai, India
+91 22 651 370 8185
www.parker.com/india

Parker Fowler
Bangalore, India
+91 80 2783 6794
www.johnfowlerindia.com

Japan
Tokyo, Japan
+81 45 870 1522
www.parker.com/japan

Parker Techno
Osaka, Japan
+81 66 340 1600
www.techno.taiyo-ltd.co.jp

Korea
Hwaseon-City
+82 31 359 0852
www.parker.com/korea

Singapore
Jurong Town, Singapore
+65 6887 6300
www.parker.com/singapore

Thailand
Bangkok, Thailand
+66 2186 7000
www.parker.com/thailand

**Latin America
Parker Comercio Ltda.
Filtration Division**
Sao Paulo, Brazil
+55 12 4009 3500
www.parker.com/br

Pan American Division
Miami, FL
305 470 8800
www.parker.com/panam

Africa

Aeroporto Kempton Park, South Africa
+27 11 9610700
www.parker.com/africa



Parker Hannifin Corporation
**Filtration Group Global
Headquarters**
6035 Parkland Boulevard
Cleveland, OH 44124
phone 216 896 3000
www.parker.com