



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



Industrial Refrigeration

Brochure R/S CB 02/10



ENGINEERING YOUR SUCCESS.

Parker Industrial Refrigeration Group, Refrigerating Specialties and HERL, is the premier supplier to the food and beverage industry.

We've been the world leader in industrial refrigeration for more than 92 years. Our engineering expertise, customer service and manufacturing excellence combine to create a product breadth that is second to none. Products include solenoid valves, pressure regulators, hand valves, liquid level controls, strainers, pumps, probes and more.

Manufacturing

Our North American and European manufacturing facilities use all of the latest technologies and state-of-the-art machining centers to create a highly flexible manufacturing environment, producing products of the highest precision and uniformity. All finished products are 100 percent inspected and tested.



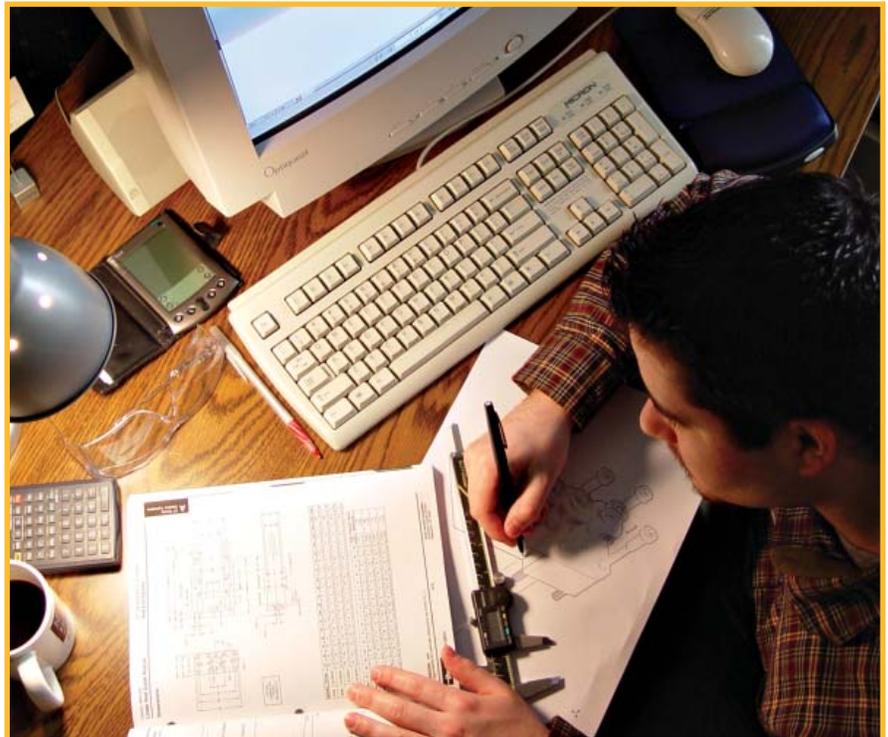
Customer Service

Meeting customer requirements — around the world — is our highest priority. Representatives provide customers with the latest in software and design tools to assist in component selection. Our highly skilled service professionals have extensive valve operation and application knowledge. We provide the solutions our customers need, for their specific application, when they need it.



Product Engineering

Understanding the dynamics of industrial systems and how they affect valve performance is key in the highly specialized refrigeration industry. Innovation, reliability and decades of experience are at the heart of our success. Our superior in-house testing capabilities include a full working ammonia rig and a supermarket rack system.

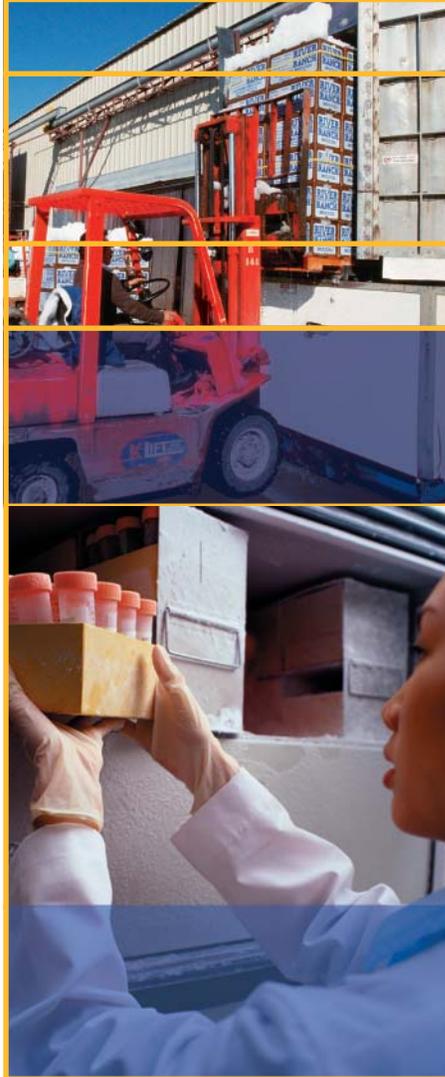


Industrial Refrigeration Markets

As the world's population grows, so does the need for large scale, refrigerated food preparation and storage facilities. Food warehouses, meat processing plants, fisheries, dairies, breweries, supermarkets, dairies, breweries, supermarkets, bottling companies and wineries all rely on Parker industrial refrigeration control valves and system solutions. The result: fresh food of the highest quality.

You can depend on Parker's experience for comfort cooling solutions in malls, institutions and hospitals, along with critical temperature environments including pharmaceutical plants and ice arenas. Keeping industrial machinery cool so that it operates more efficiently, maintaining the freshness of produce during transportation, and preventing mines from flooding are just some of the unique applications of the products Parker offers.

When you need temperature control, think Parker Industrial Refrigeration.



Industrial Refrigeration Markets

- Food & beverage
- Heating & cooling
- Agriculture
- Power generation & energy
- Mining
- Marine
- Industrial machinery
- Semiconductor
- Fuel cells
- Processing
- Military

System Schematic



Evaporator Pressure Regulator



Globe "Y" Hand Expansion Valve



Depth Tracker Liquid Level Transducer Probe



Dual Relief Valves with Manifold



Gauge Valve



Safety Relief Valve



Stainless Steel Rapid Purger



LLSS Float Switch



Refrigerant Pressure Gauge



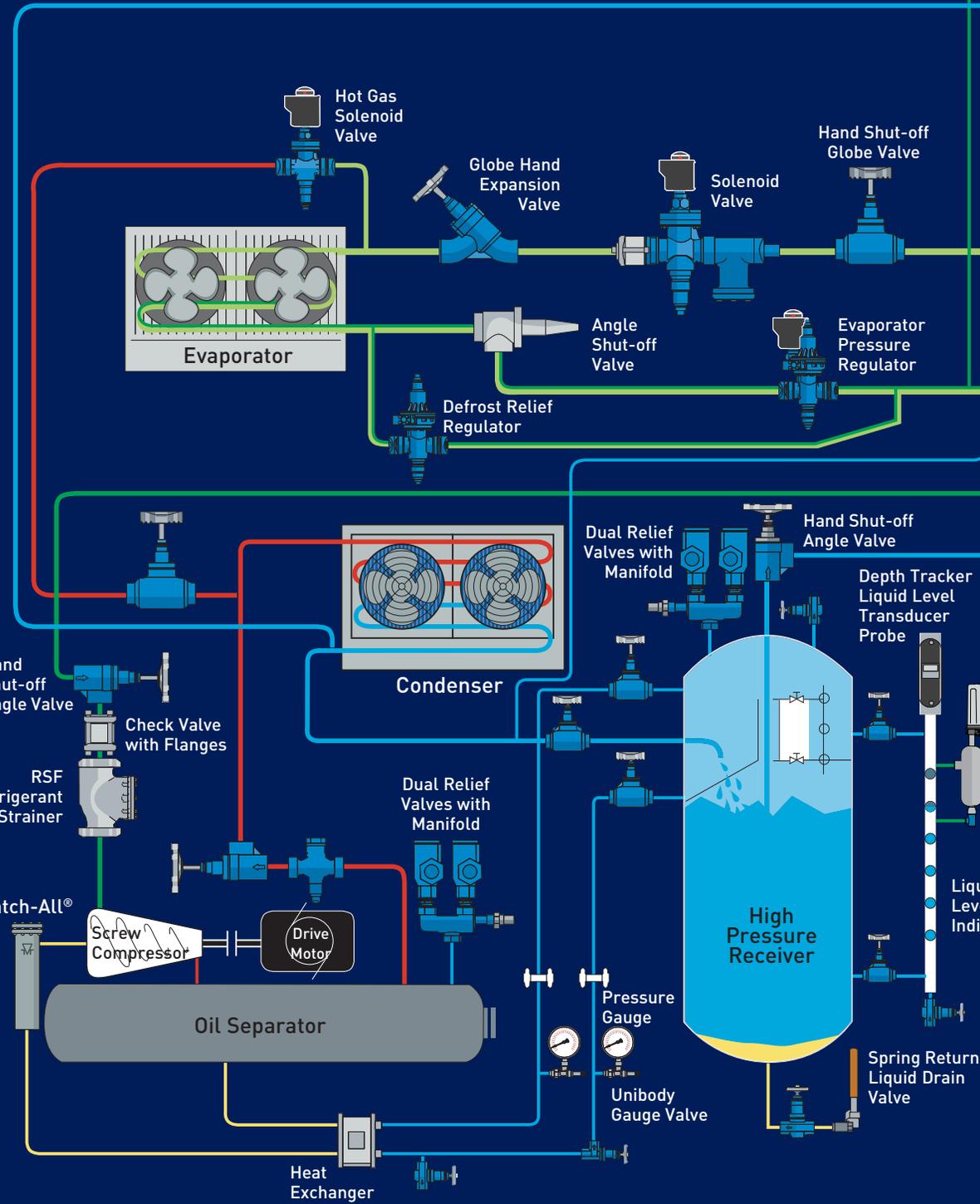
Single Point Level Sensor

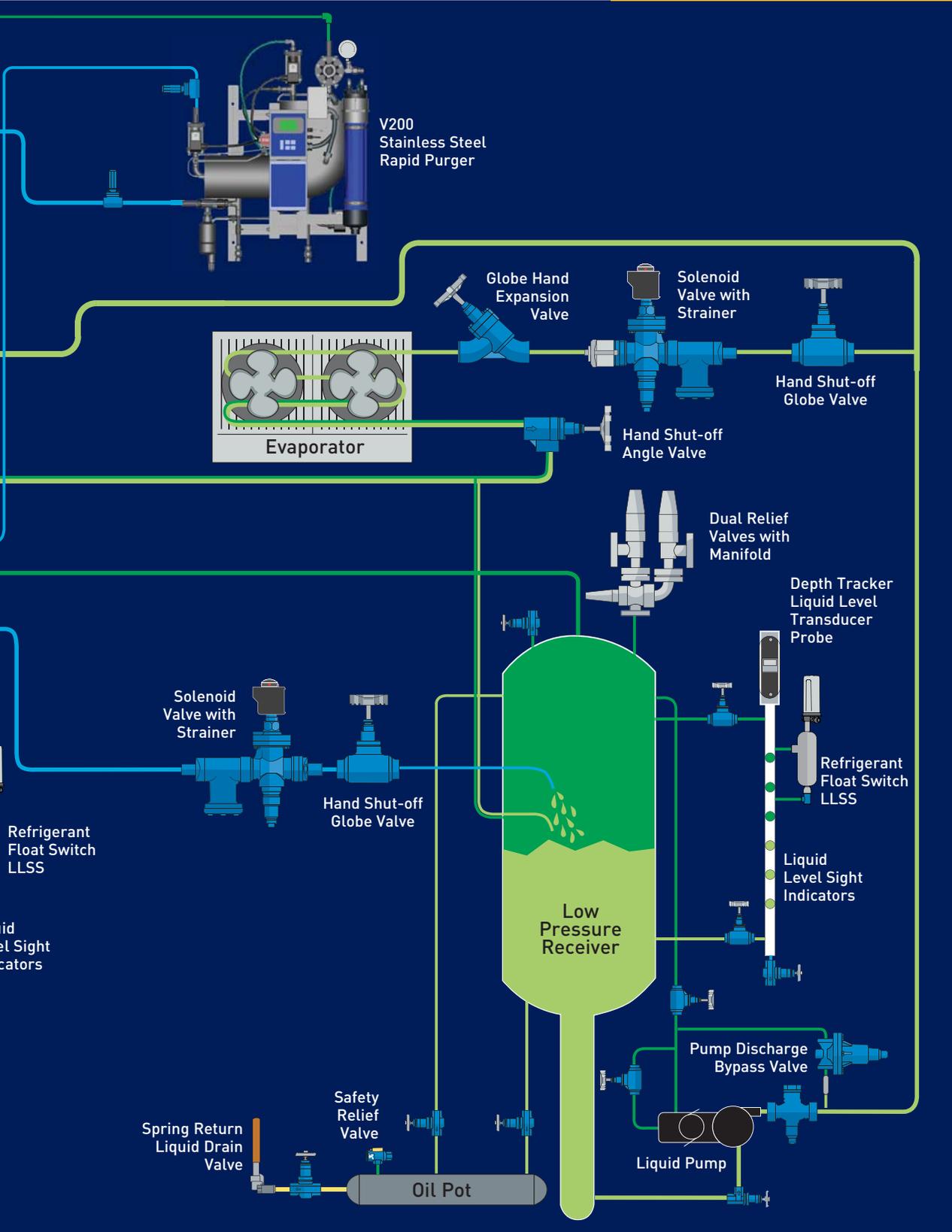


MVF Valve



Defrost Relief Regulator





Solenoid Valve



Pump Discharge Bypass Valve



3-Way Relief Valves with Manifold



Angle Shut-Off Valve



Check Valve with Flanges



Spring Return Liquid Drain Valve



Globe "T" Hand Shut-Off Valve



Industrial Coil With LED Pilot Light



Defrost Controller



Dual Position Suction Stop Valve



Liquid Level Sight Indicators



Liquid Pump

Corrosion Resistant Valves (CRV)

Purpose:

The new corrosion resistant line of valves utilizes an improved design to increase working pressures, temperature ranges, and capacities while minimizing the effects of system impurities, creating a more durable operation. In addition, component weight is reduced by 70% compared to the current Refrigerating Specialties cast iron products. This lightweight design reduces the costs associated with installation and shipping.

Features:

- Suitable for Ammonia, CO₂, R-22, R-404A and other common refrigerants
- Manufactured entirely from corrosion resistant material - 304 stainless steel and aluminum
- Improved performance at low loads with a turn down ratio of 10% of rated capacity
- Higher capacities
- Light weight
- Can be mounted in a horizontal or vertical position
- Fluid temperature rating: -60°C to 116°C (-76°F to 240°F)
- Ambient temperature rating: -40°C to 60°C (-40°F to 140°F)
- Design pressure rating of 32 bar (464 psig)
- Available in a variety of connection sizes.
- Complies with Pressure Equipment Directive (PED) 97/23/EC



Inlet Pressure Regulator



Gas Powered Suction Stop Valve



Solenoid Valve



Outlet Pressure Regulator with Electric Bypass

Parker Industrial Refrigeration Product Support CD

- **CAD CD:**

Automated software that inserts different orthographic views of R/S valves into your drawings. Based on “Auto-LISP” routines, the interface allows selection of the type, size, configuration and view of the valve(s) to be inserted into the drawing. The built-in configurator software then automatically creates the valve configuration and inserts it into the drawing, at the specified location.

- **Sizing/Selection:**

R/S’s Refrigeration Selection Program is designed to provide engineers and system designers a solid reference in selecting various control valves based on designer’s input and valve operating conditions.

- **Safety Relief Selector:**

Our Safety Relief System Calculator program will select Refrigerating Specialties Safety Relief Valves that are designed to meet the requirements of ASME VIII, ASHRAE and IIAR standards.

- **Industrial Condensed Catalog:**

A complete offering of industrial product families and related accessory options. Application information, selection guide and ordering methods provide assistance in choosing the proper product.

- **Valve Capacities:**

This support CD provides a composite of available published capacity tables for R717 and other refrigerants.

- **Product Bulletins:**

A browser interface program provides easy access to all of our product bulletins.

- **Product Flyers:**

Announcements of our most recently released new products.

- **Contacts:**

Internal and external contact information for our Customer Service, Technical Support, Marketing, Regional Sales Managers and Marketing departments.



CD Contents

- CAD CD
- Sizing and selection
- Safety relief valve selector
- Condensed catalog
- Valve capacities
- Product application
- Product bulletins
- Product fliers
- Contacts



CLIMATE & INDUSTRIAL CONTROLS GROUP

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

OTHER PARKER GROUP



AEROSPACE

- 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



ELECTROMECHANICAL

- AC/DC drives & systems
- Electric actuators, gantry robots & slides
- Electrohydraulic actuation systems
- Electromechanical actuation systems
- Human machine interfaces
- Linear motors
- Stepper motors, servo motors, drives & controls
- Structural extrusions



FILTRATION

- 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

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



HYDRAULICS

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



PNEUMATICS

- Air preparation
- Brass fittings & valves
- Manifolds
- Pneumatic actuators, grippers, valves, controls & accessories
- Quick disconnects
- Rotary actuators
- Rubber & thermoplastic hose & couplings
- Structural extrusions
- Thermoplastic tubing & fittings
- Vacuum generators, cups & sensors



PROCESS CONTROL

- 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

- 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

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