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Shandong Atlas Refrigeration Technology Co.,Ltd.

Company Profile

Shandong Atlas Refrigeration Technology Co., Ltd. is a specialized manufacturer of cold rooms and refrigeration systems, headquartered in Shandong Province, Northern China. Guided by the values of integrity, responsibility, and excellence, we are committed to delivering reliable and efficient refrigeration solutions to customers worldwide.

With extensive industry experience and a professional engineering team, we design tailor-made cold room systems based on precise analysis of product load, operating conditions, and environmental factors, ensuring optimal performance for every application.

Our product range includes cold room panels, cold room doors, condensing units, evaporators, condensers, and ice-making machines. Our systems utilize premium compressors from leading global brands, ensuring high efficiency, durability, and long-term operational reliability.

Today, our refrigeration solutions are trusted by customers across Europe, the Americas, the Middle East, Africa, Oceania, and Southeast Asia, supporting a wide range of cold room applications around the world.

Advantages

Superior Quality
Engineered to meet the highest standards.

High Efficiency
Optimized for energy savings and performance.

Precision Engineering
Every detail crafted for reliability and durability.

Competitive Pricing
Cost-effective solutions without compromise.

COLD ROOM SOLUTIONS

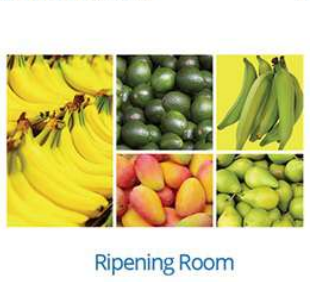
Seafood & Meat Freezer Room

Dairy & Ice Cream Blast Freezer

Fruit & Vegetable Cold Room

Pharmaceutical & Chemical Cold Room

Commercial Cold Room


Ripening Room

Flower Storage Room

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COLD ROOM PANELS

Engineered Insulation Solutions for Reliable Cold Storage

Cold room panels are the core structure of any cold storage system. Designed to maintain precise temperatures while minimizing energy loss, our panels combine advanced insulation performance, structural strength, and hygienic design to meet the demanding requirements of food, pharmaceutical, and industrial cold rooms.

We offer a complete range of cold room panel solutions suitable for both small, customized rooms and large, standardized industrial projects.

FAST FIT COLD ROOM PANELS

High-Precision Panels for Medium & Large Cold Rooms

Fast Fit Cold Room Panels are factory-manufactured and precision-engineered for rapid installation and large-scale cold storage projects. Manufactured using advanced molds and automated production processes, these panels provide uniform thickness, excellent airtightness, and superior insulation performance, making them ideal for standardized cold room applications.

Feature	Fast Fit Panels	Cam-Lock Panels
Manufacturing	Factory-made, automated	Manually manufactured
Installation Speed	Very fast	Fast
Size Suitability	Medium & large rooms	Small & non-standard rooms
Dimensional Accuracy	Very high	High
Custom Flexibility	Standardized	Highly flexible
Typical Use	Industrial projects	Customized projects

INSULATION CORE OPTIONS

PUR INSULATION PANELS

Our PUR (Polyurethane) insulation panels offer superior thermal performance, durability, and hygiene. With a rigid foam core between high-quality metal sheets, they maintain stable temperatures, reduce energy consumption, and ensure reliable long-term performance.

Ideal for food processing, pharmaceutical storage, and commercial refrigeration, PUR panels combine strength, precision manufacturing, and quick installation.

The Technical Standard of PUR Sandwich Panel

No.	Item		Unit	Tech Specs
1	Density		KG/m²	40±2
2	Heat conductivity		W/m.k	≤0.024
3	Compressive strength		Kpa	≥ 150
4	Combustion performance	Average burning time	s	≤90
		Average burning range	mm	≤50
5	The bond strength between sandwich core layer and panel		Mpa	> 0.1
6	Stripping performance	The core material on the surface	--	uniform distribution
		The adhesive area of each stripping surface	--	≥ 90%

PIR INSULATION PANELS

Our PIR (Polyisocyanurate) insulation panels offer superior thermal performance, enhanced fire resistance, and durability. With a rigid foam core between high-quality metal sheets, they maintain stable temperatures, reduce energy use, and ensure reliable performance in cold storage.

Ideal for food processing, pharmaceutical storage, and commercial refrigeration, PIR panels combine fire safety, strength, and efficient installation.

The Technical Standard of PIR Sandwich Panel

No.	Item		Unit	Tech Specs
1	Density		KG/m²	40±2
2	Heat conductivity		W/m.k	≤0.022
3	Compressive strength		Kpa	≥ 160
4	Combustion performance		--	B1
5	The bond strength between sandwich core layer and panel		Mpa	> 0.1
6	Stripping performance	The core material on the surface	--	uniform distribution
		The adhesive area of each stripping surface	--	≥ 90%

CAM-LOCK PANELS

Manually Manufactured Panels for Small & Non-Standard Cold Rooms

Our Cam-Lock Panels are manually manufactured to deliver precision, durability, and excellent airtight performance. Featuring an integrated cam-lock connection system, these panels are easy to assemble and install, making them an ideal solution for small-scale or non-standard cold rooms where flexibility is essential.

The Technical Standard of cam-lock Panel

No.	Surface material	50 mm	75 mm	100 mm	120 mm	150 mm	175 mm	200 mm	250 mm
1	Colored steel sheet(0.326-0.8mm)	√	√	√	√	√	√	√	√
2	Stainless steel sheet(0.4-0.8mm)	√	√	√	√	√	√	√	√
3	Emboseed aluminum sheet(0.5-3mm)	√	√	√	√	√	√	√	√
4	Galvanized steel sheet(0.5-2mm)	√	√	√	√	√	√	√	√
5	Polyurethane panel without steel	√	√	√	√	√	√	√	√
6	Suitable temperature for cold room	≥15℃	≥10℃	≥0℃	≥-10℃	≥-20℃	≥-25℃	≥-35℃	≥-45℃

COLD ROOM DOOR

COLD ROOM SLIDING DOOR

Space-saving insulated sliding doors engineered for cold rooms and freezer rooms, delivering smooth operation, hygienic performance, and excellent temperature stability where reliable sealing and high efficiency are essential.

COLD ROOM SWING DOOR

High-performance insulated swing doors engineered for frequent traffic, airtight sealing, and long-lasting durability in chiller and freezer rooms. Designed to reduce temperature loss, improve workflow efficiency, and ensure reliable operation in demanding cold storage environments.

INDUSTRIAL SECTIONAL DOOR

Heavy-duty insulated sectional doors designed for warehouses, industrial facilities, and cold storage. Featuring vertical lifting operation, space-saving design, and robust sealing, these doors provide energy efficiency, smooth operation, and long-term durability in high-traffic industrial environments.

COLD ROOM TRAFFIC DOOR

Durable insulated doors designed for high-traffic areas in cold rooms and freezer rooms. Engineered for frequent opening and closing, efficient airflow control, and temperature stability, these doors ensure hygienic operation, long-lasting performance, and smooth, reliable access in busy cold storage environments.

COLD ROOM CONDENSING UNIT
(HERMETIC COMPRESSOR)

Compact outdoor refrigeration unit for chiller & freezer rooms

Designed for small to medium cold rooms, hermetic condensing units offer reliable performance, compact design, and cost-effective operation. Ideal for applications requiring stable cooling with minimal maintenance.

Refrigerants

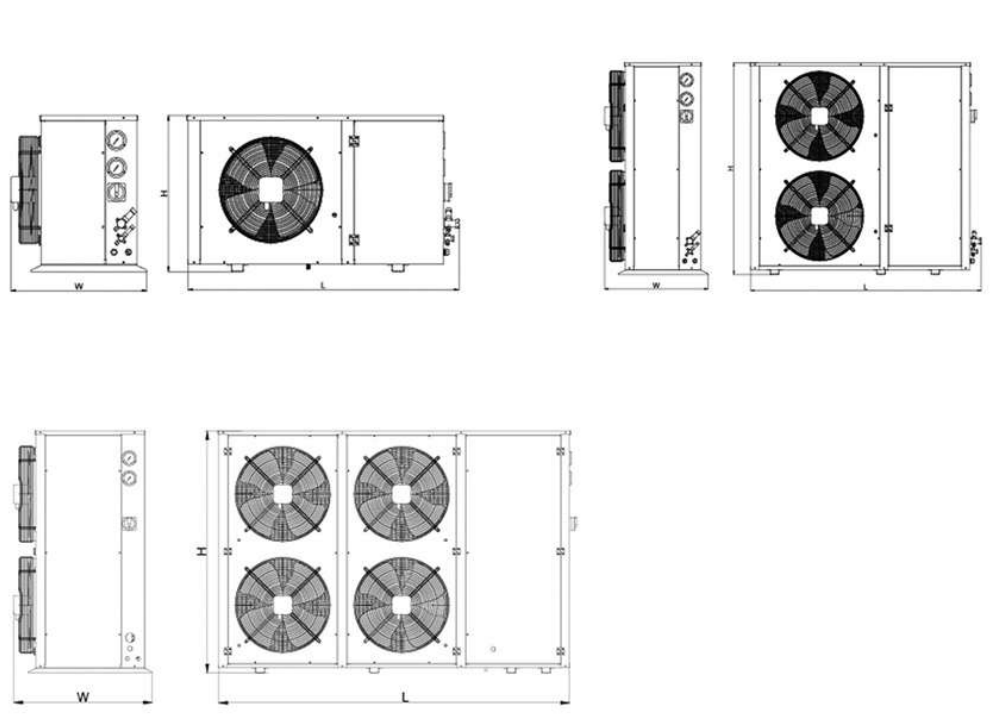
R134a / R404A / R407C / R448A / R449A / R507A
Available in multiple capacities, refrigerants, and voltage options.

Key Features

Compact Integrated Design – Factory-assembled with optimized omponen layout for easy installation.
High-Quality Hermetic Compressors – From Copeland, Panasonic, Tecumseh, Invotech, and Maneurop.
Efficient Air-Cooled Condenser – High-performance coils ensure effective heat dissipation.
Low Noise Operation – Hermetic compressor reduces vibration and operating noise.
Reliable Performance – Designed for continuous operation in demanding cold storage environments.
Service-Friendly Design – Easy access to valves and components simplifies maintenance.

Standard Components

Hermetic compressor
Air-cooled condenser
Axial condenser fan motor
Liquid receiver
Filter drier & sight glass
Pressure gauges
High / low pressure controls
Oil separator(for low temperature)
Suction accumulator(for low temperature)
Electrical control panel(optional)
Fan speed controller(optional)



COLD ROOM CONDENSING UNIT
(SEMI-HERMETIC COMPRESSOR)

Compact outdoor refrigeration unit for chiller & freezer rooms

Designed for medium to large cold rooms, semi-hermetic condensing units provide higher capacity, durability, and long-term serviceability. Built for continuous operation where performance, efficiency, and maintenance flexibility are essential.

Compressor Brands

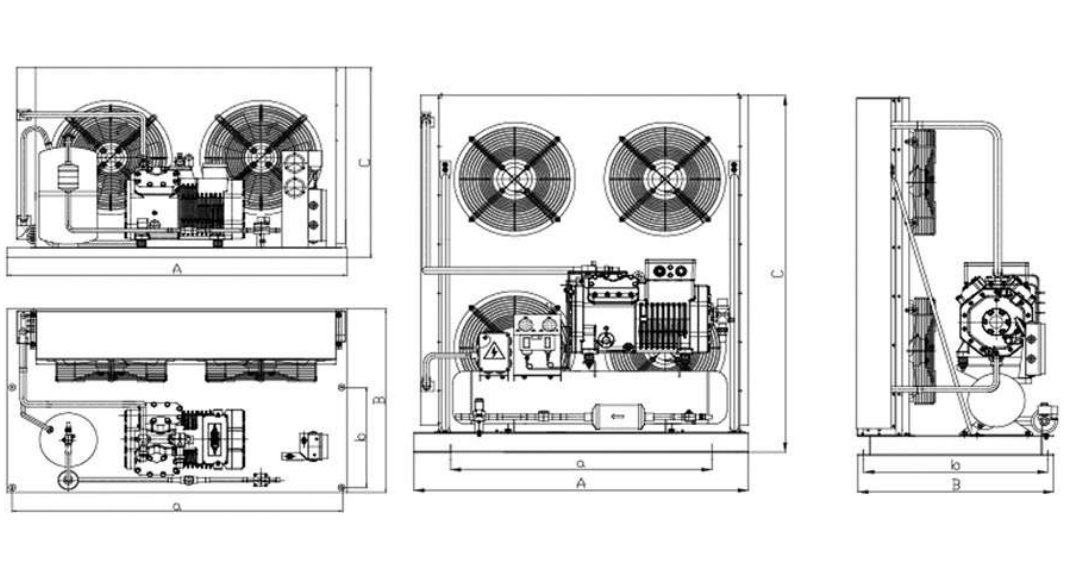
BITZER / REFCOMP / HANBELL / DORIN / FRASCOLD
Available in multiple capacities, refrigerants, and voltage options.

Key Features

- **High Cooling Capacity** – Suitable for medium and large cold rooms.
- **Serviceable Semi-Hermetic Compressor** – Easy to repair and maintain, extending service life.
- **Energy-Efficient Operation** – Optimized compressor and condenser for reduced power consumption.
- **Durable Construction** – Heavy-duty design for industrial environments.
- **Stable Performance** – Smooth operation with low vibration.
- **Easy Maintenance** – Accessible service valves and components simplify routine checks.

Standard Components

Semi-Hermetic Compressor (Reciprocating / Screw Type)
Air-cooled condenser
Axial condenser fan motor
Liquid receiver
Filter drier & sight glass
Pressure gauges
High / low pressure controls
Oil separator
Suction accumulator
Solenoid Valve (optional)
Electrical Control Panel(optional)



COMPRESSOR RACK SYSTEM

Centralized refrigeration solution for large-scale cold storage & industrial applications

Designed for high-capacity and multi-room cold storage facilities, compressor rack systems combine multiple compressors into a single centralized unit. This ensures superior efficiency, redundancy, and precise temperature control across chiller and freezer rooms.

Compressor Brands

BITZER / REFCOMP / HANBELL / DORIN / FRASCOLD

R404A | R507A | R134a | R448A | R449A | R744(CO2)
Available in multiple capacities, refrigerants, and voltage options.

Key Features

- Multiple compressors operating in parallel
- High energy efficiency with load-based operation
- Built-in redundancy for uninterrupted cooling
- Centralized control and monitoring system
- Reduced operating and maintenance cost
- Stable suction pressure control
- Scalable design for future expansion

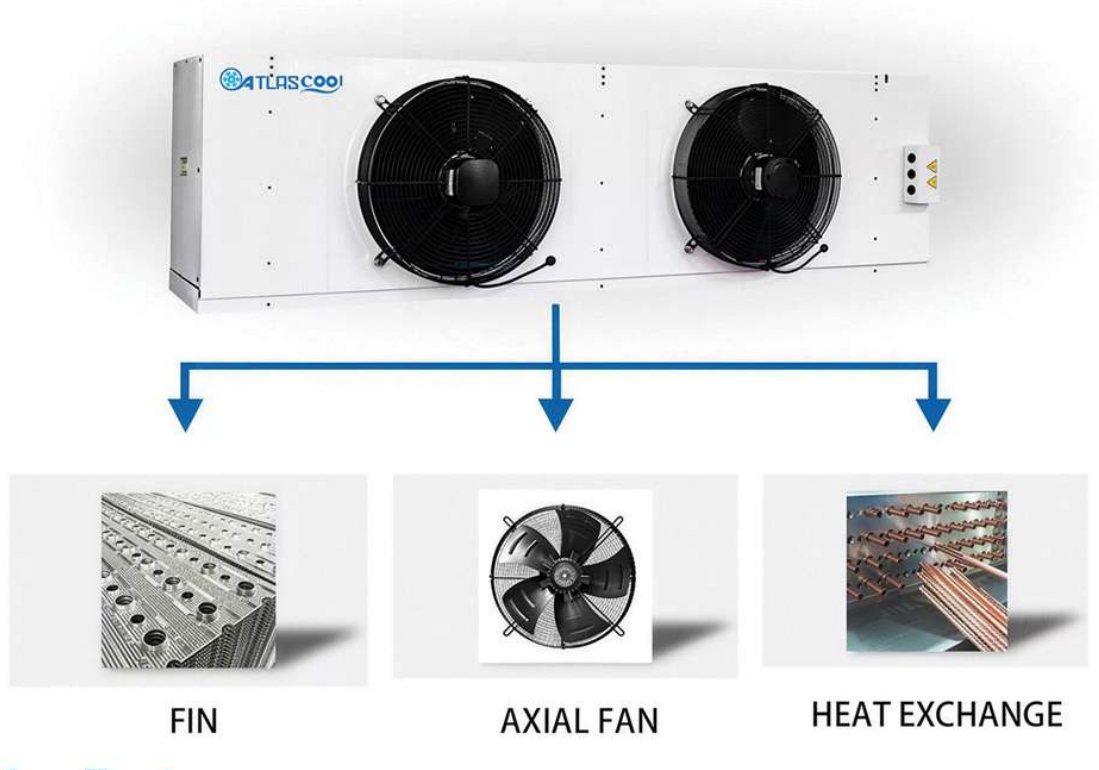
Standard Components

Semi-hermetic compressor
Common suction manifold
Common discharge manifold
Oil management system
Liquid receiver
Electronic control panel with PLC
High / low pressure safety switches
Suction accumulator
Filter driers & sight glasses
Solenoid and control valves
Air-cooled or water-cooled condenser(optional)
Variable frequency drive (VFD) for capacity control (optional)

COLD ROOM EVAPORATOR
(AIR COOLER)

Efficient air-cooling solution for uniform temperature control in cold rooms

Cold room evaporators, also known as air coolers, are designed to ensure consistent air circulation and precise temperature control inside chiller and freezer rooms. Built for reliability and efficiency, they play a critical role in maintaining product quality.



Key Features

High-efficiency finned heat exchanger
Uniform air distribution for stable temperature
Energy-efficient axial fans
Corrosion-resistant coil and casing
Low noise operation
Easy installation and maintenance
Suitable for chiller and freezer applications

Standard Components

Copper tube aluminum fin coil
Axial fan motors
Electric or hot gas defrost system
Drain tray with heater
Air throw distribution housing
Electrical junction box
Expansion valve (optional)

TYPES AVAILABLE

Ceiling-mounted evaporators
Cubic evaporators
Low air velocity evaporators
Dual discharge evaporators
Floor-mounted evaporators
Blast freezer evaporators

Available in various capacities, fin spacing, defrost options, and refrigerants.

AIR,
WATER & EVAPORATIVE CONDENSERS

Comprehensive heat rejection solutions for refrigeration and cold room systems

These condensers are designed to efficiently remove heat from refrigeration systems across various applications. Available in air-cooled, water-cooled, and evaporative designs, they cater to small to large cold rooms, chiller systems, and industrial refrigeration setups.

Key Features

Efficient heat transfer for stable system performance
Air-cooled, water-cooled, and evaporative options
Corrosion-resistant materials and coatings
Energy-efficient operation
Low noise and vibration
Easy installation and maintenance
Compatible with multiple refrigerants

Standard Components

Condenser coil (copper/aluminum or stainless steel)
Fans (air-cooled and evaporative) or water circulation components
Protective casing and frame
Vibration isolators & supports
Electrical junction and control boxes
Safety devices (pressure switches, flow switches)
Optional accessories (fan guards, spray headers, cooling tower connections)

TYPES AVAILABLE

Air-Cooled Condensers: V-type, Flat, Remote, Low-noise designs
Water-Cooled Condensers: Shell & tube, Plate heat exchangers, Cooling tower integrated
Evaporative Condensers: Combined flow design , counterflow design, Hybrid design

Available in multiple capacities, fan or water flow options, coatings, and refrigerants.

ICE MAKING MACHINE

Reliable ice production solutions for commercial and industrial applications

Ice making machines are designed to produce high-quality ice efficiently for food service, cold storage, beverage industries, and industrial processes. Available in various types and capacities, they ensure consistent production and easy maintenance.

Key Features

High-capacity ice production
Energy-efficient operation
Durable stainless-steel construction
Easy-to-use control panel
Hygienic design with minimal contamination risk
Low noise and vibration operation
Simple maintenance and cleaning

Standard Components

Ice-making evaporator
Compressor (hermetic or semi-hermetic)
Condenser (air or water-cooled)
Water filtration system
Ice storage bin or hopper
Electrical control panel
Safety and operational sensors

TYPES AVAILABLE

Flake Ice Machines – Produces thin, soft flakes ideal for food preservation, seafood, and processing applications
Tube Ice Machines – Produces cylindrical hollow ice suitable for beverages, cold drinks, and industrial cooling
Block Ice Machines – Produces large ice blocks for storage, heavy-duty cooling, or transportation purposes

Available in various capacities, ice shapes, refrigerants, and voltage configurations.

REFRIGERATION SYSTEM & COMPRESSOR ACCESSORIES

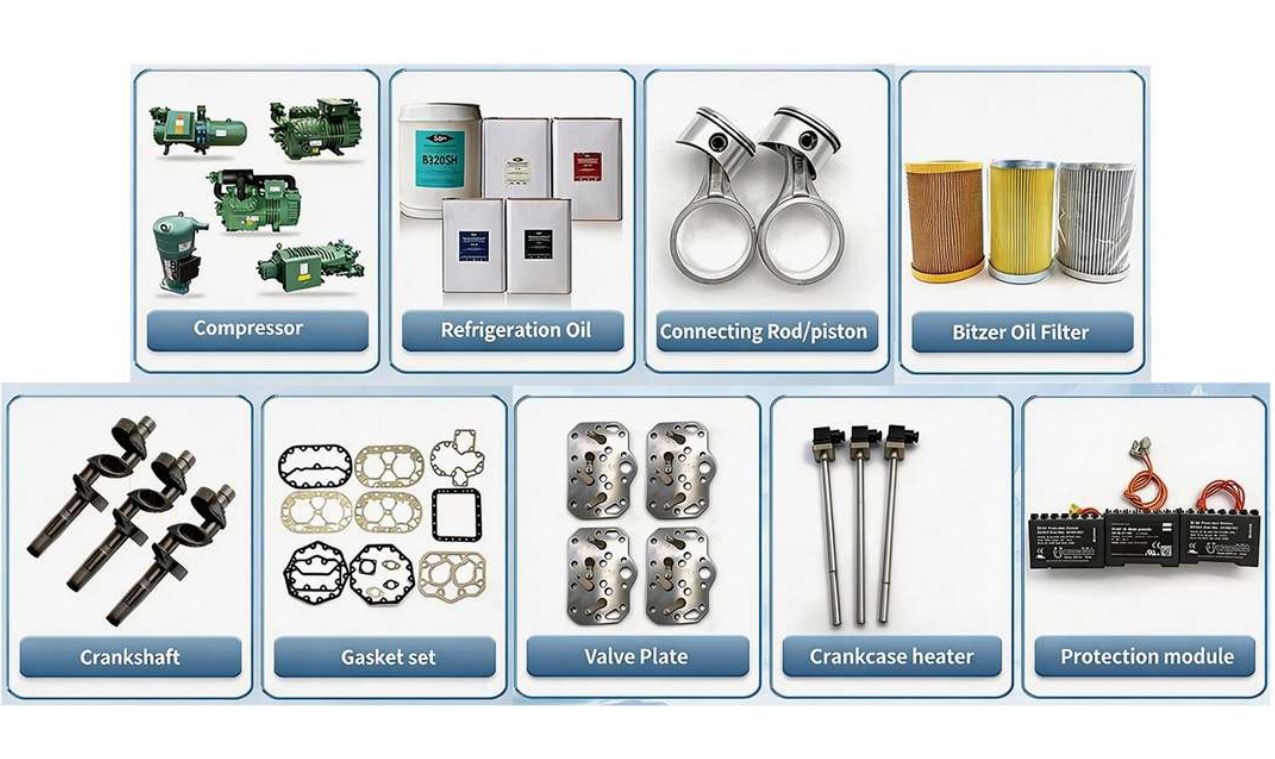
High-Quality Parts for Efficient Operation

We provide a wide range of accessories for refrigeration systems and compressors, available in various sizes and prices, including DANFOSS, HANSEN, AMG, and DOFUN valves. Our selection ensures reliable, efficient, and long-lasting performance for all types of refrigeration systems.

From valve parts to complete compressor components, we offer solutions that enhance system functionality and reduce maintenance costs.

Bitzer Compressors & Genuine Spare Parts

compressor, refrigeration oil, connecting rod, oil filter, crankshaft seal, gasket, motor, valve plate, shaft seal, bearing bush etc.



Carel Controllers & Electronic Expansion Valves