MAKE IN INDIA

SUPER™
1968

All ammonia refrigeration solutions under one roof.






Visit us at www.super1968.com

Late Shri Dharam Pal Maini
Founder

Shri M L Checker
Technical Director

SUPERmen

SUPER 1968 is the brainchild of the visionary, Late Shri Dharam Pal Maini, who had become a revered name in the contemporary refrigeration industry. What started just as a single product unit, manufacturing '**SUPER**' brand valves in 1968; has today transformed into a conglomerate, producing a range of valves and other ammonia refrigeration equipment.

SUPER 1968 is now a one stop destination for all ammonia refrigeration requirements. All the manufacturing group companies have been accredited with ISO-9001: 2000 certificate of quality. The group, in fact, has been a pioneer in the field of Indian Industrial Refrigeration Industry and has contributed significantly in shaping it. Dynamism, creativity, versatility and customer orientation are the core attributes that give **SUPER 1968** its distinct identity. Besides, relentless pursuit of excellence, professional management, highly skilled work force and pursuance of time-tested quality parameters have taken the group way ahead of the rest.

Neeraj Checker
Director, Marketing

Anil Maini
Managing Director

Vikram Maini
Managing Director

Anshum Maini
Director,
Business Development

However, the company is not sitting on its laurels. It's persisting with futuristic innovations to keep bringing advanced products that change the dynamics of the ammonia refrigeration industry.

Members of:

SUPER™

1968

1968

COMPANY WAS
FOUNDED

1970

Set up foundry unit in Delhi
Set up manufacturing unit for
cast iron ammonia valves

1980

Added range of
slow speed compressors

OUR HISTORY OF REFRIGERATION

SUPER 1968, India's best-known industrial refrigeration solution brand, has been inventing pioneering ideas since 1968. SUPER 1968, along with its sister concerns, celebrate its 50th anniversary and you're invited to join us on a trip through our history, which also happens to be the history of ammonia refrigeration solutions in India.

1990

Added range of high speed compressors, evaporators, pressure vessels, condensors and allied equipment

2000

Ventured into turnkey projects in India and abroad (Middle East, Bangladesh and Nepal)

Set up bigger head office in Delhi

Increased dealer network to 40 dealers (India and abroad)

Present

Set up modernised manufacturing unit with latest technology and CNC machines in Sonipat

Set up modernised foundry unit with latest machinery and equipment in Sonipat

Added range of all types of ammonia controls

Collaborated with various partners to add range of ammonia equipment

Set up of complete in-house team of engineers and consultants to provide seamless service and the best in class turnkey solutions to our customers

Developed first of its kind Y-type valve (flanged) in cast iron - The only one in India

On our way to being established as a one stop shop for all ammonia refrigeration needs

The range of SUPER services

Turnkey solutions:

Using our 50-years of experience in industrial refrigeration valve manufacturing, we specialise in installing turnkey projects (material supply, installation and commissioning), giving energy efficient and reliable refrigeration systems in India and abroad. From consulting to conceptualisation, from planning and designing to budgeting, our services include almost every critical part of the project.

Consultation:

We have a dedicated team of experts to cater to our client's refrigeration queries and needs.

Our services include:

- Conceptualisation, planning, designing and budgeting.
- Preparation of complete documentation and coordination for obtaining subsidy from the relevant government department.
- Project management services.

SUPERior quality

It is our passion towards quality that has made SUPER 1968 a brand to reckon with. We always strive for the highest standard of quality that ensures complete customer satisfaction. ISO 9001:2000 certification is a testimony to our group's competence and abilities in accordance with the highest standards of refrigeration equipment, which includes ammonia refrigeration valves, refrigeration compressor spares, industrial refrigeration compressors, industrial air coolers, allied equipment and so on.

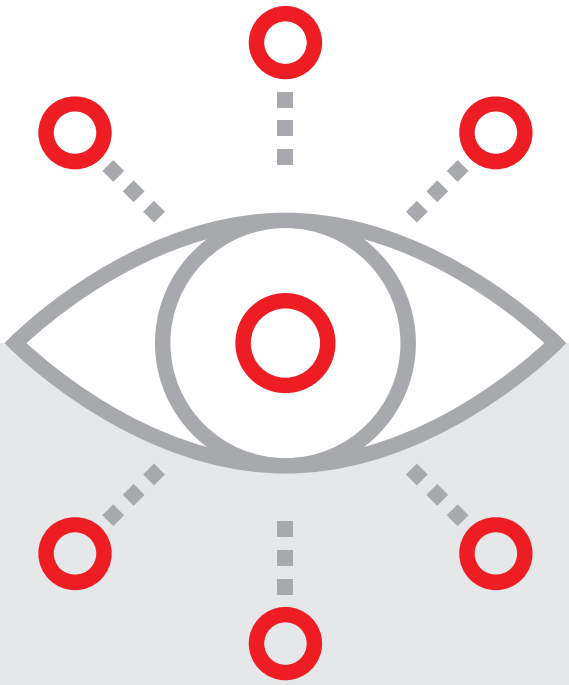
In fact, SUPER 1968 has a robust quality control measure for the whole process including design, procurement, fabrication and assembly, testing, cleaning, and painting processes. Varied tests are conducted at regular intervals to ensure that the products are perfect, keeping in mind the following parameters:

- Design
- Resistance to corrosion
- Performance
- Dimensions

Our futuristic manufacturing facility is equipped with advanced CNC machines to ensure that every product bears a flawless finish.

R&D

The R&D department ensures continuous upgradation and introduction of world class technology, leading to products of international standards. Each product is subjected to stringent quality control to further ensure the quality. As a result, our products are acclaimed nationally and internationally for their high standard and functional efficiency.



To identify and realise our
customers' needs and dreams,
even those that they themselves
may not be aware of

vision

mission

To be recognised as one of the innovators of our field
by constantly upgrading with latest technologies

Who do we cater to?

- Pre cooling
- High humidity cold storage
- Frozen storage
- Freezing of fruits and vegetables
- Controlled atmosphere cold storage
- Ripening rooms
- Distribution rooms

FOOD & AGRICULTURE INDUSTRY

- Ice cream/butter/cheese/milk storage
- Ice cream candy making
- Hardening tunnel
- Chilled water plants
- Chillers
- Glycol and calcium chloride brine chilling

DAIRY & ICE CREAM INDUSTRY

- Quick chilling rooms
- Water chillers
- Pre chillers
- Blast freezers
- Plate freezers
- Low temperature frozen chambers
- Cold storages
- IQF

REFRIGERATION SYSTEMS FOR MEAT, POULTRY & SEA FOOD INDUSTRY

- Malt cooling
- Wort cooling
- Water chillers
- Cold storages
- Chillers
- Glycol chillers
- Volator cooling systems
- Hops stores
- Yeast cooling

BEVERAGE & BREWERY INDUSTRY

- IQF
- Low temperature frozen chambers
- Blast freezers
- Plate freezers

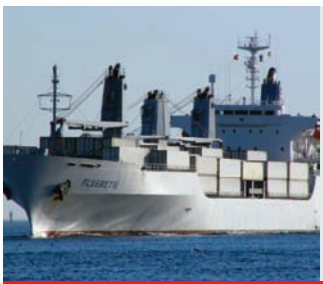
LOW TEMPERATURE APPLICATIONS

- Oxy-chlorination
- Brine chilling
- Water chilling
- Acid cooling
- Compressed air cooling
- SO_2/CO_2 liquefaction
- Heat recovery systems
- Process industry
- Chlorine liquefaction
- Ammonia liquefaction

CHEMICAL & PHARMACEUTICAL INDUSTRY

- Tube Ice making
- Ice storage rooms
- Brine chilling
- Concrete cooling
- Vanaspati cooling
- Ice skating rings
- Thermal energy systems
- Block ice plants
- Flake ice plants
- Ice production

MISCELLANEOUS



- Thermal power plants
- Food processing/packing halls
- Process rooms
- Fertilizer plants
- Chemical plants
- Marine air conditioning and refrigeration

AIR CONDITIONING

- Pre chillers
- Water chillers
- Blast freezers and plate freezers
- Flake ice makers
- Low temperature frozen chambers
- IQF

LOGISTICS & WAREHOUSING

SUPER clients


Dalda
VOLTAS
Kirloskar
BUNGE
Havmor
ICE CREAM
Nestlé
Good Food, Good Life
Vadilal
BLUE STAR
BLUE STAR INFOTECH
AL NAFIS
JEWELLERS L.L.C.
MILKSPECIALTIES
Cream bell
Allana
WALL'S
YORK
MEPL
MIRHA EXPORTS PVT. LTD.
MOTHER DAIRY
happy Food
happy people
Al Aali Exports Pvt. Ltd.
Hind Agro
RANBAXY
Reynold
DELHI MILK SCHEME
Mahaan
AL-HAMD AGRO
PARAG
BHOLE BABA
Dhara
JUBILANT FOODWORKS
GOPALJEE
Safal
एनटीपीसी
NTPC

Why choose SUPER 1968?

It's the expertise and knowledge of our professionals that make SUPER 1968 a stand apart name in the refrigeration industry. Besides, SUPER 1968 now has a proven and enviable track record of over 5 decades wherein it has delivered many successful projects to the complete satisfaction of the patrons.

The judiciousness and industriousness of our employees form the core of SUPER 1968. In fact, we have channelised the potential of our employees by dividing them into various departments. Our experts include:

- Designers
- Engineers
- Researchers
- Administrative personnel
- Technocrats
- Marketing agents
- Quality analysts

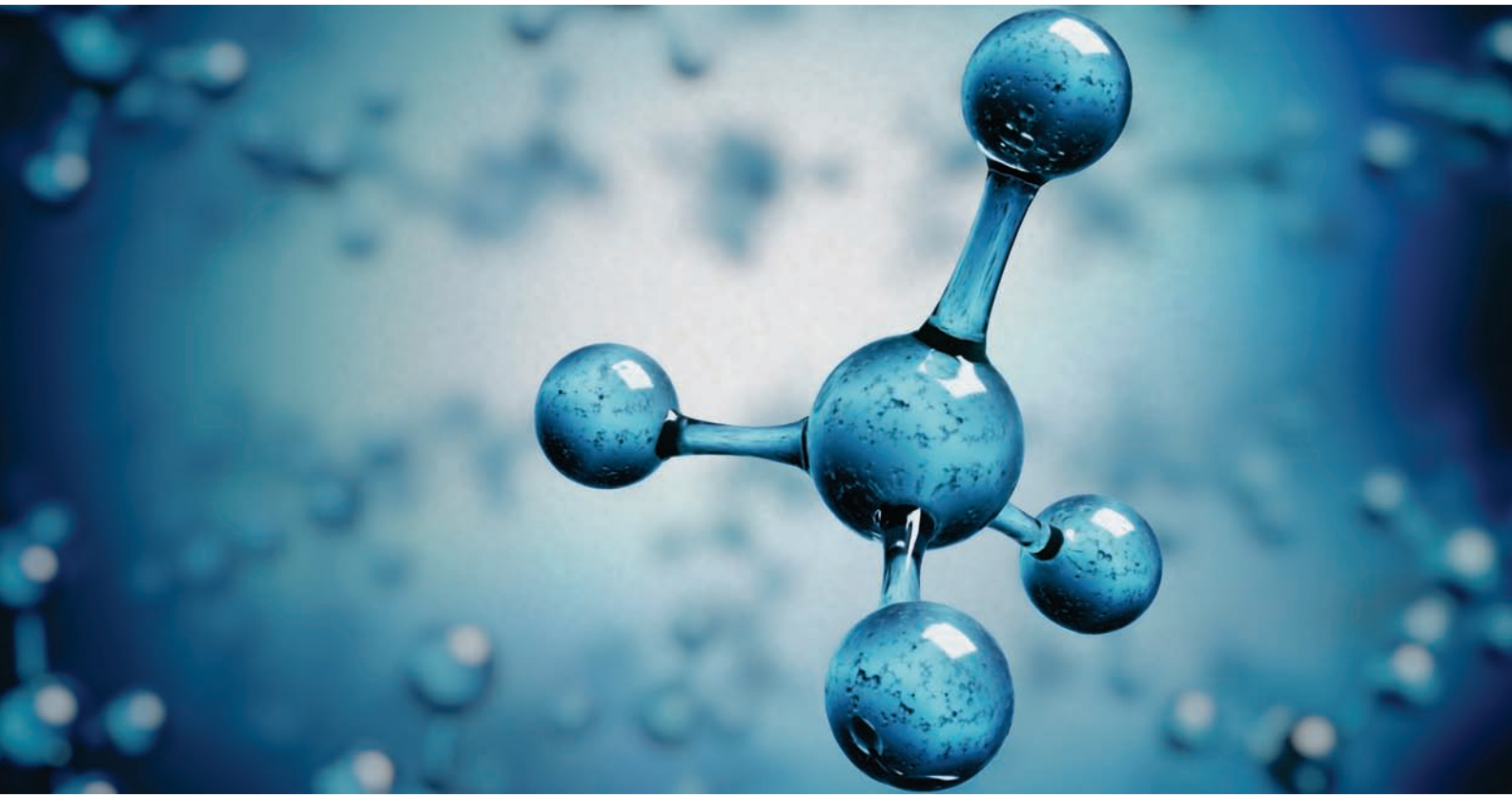
What's more, SUPER 1968 values the basic ingredients of management:

- Ethics
- Transparency
- Professionalism
- Integrity

Advantage ammonia

At SUPER 1968, we care! Our refrigeration solutions are ammonia based and cause no harm to the environment.

- Highest COP (coefficient of performance)
- Efficient compressor operation
- Low refrigerant
- No ozone depletion
- Sustainable
- Self alarming
- Natural refrigerant



What are the overall advantages of using ammonia as a refrigerant?

As a refrigerant, ammonia offers three distinct advantages over other commonly used industrial refrigerants. First, ammonia is environmentally compatible. It does not deplete the ozone layer and does not contribute to global warming. Second, ammonia has superior thermodynamic qualities, as a result of which, ammonia refrigeration systems use less electricity. Third, ammonia's recognisable odor is its greatest safety asset. Unlike most other industrial refrigerants that have no odor, ammonia refrigeration has a proven safety record, in part because leaks are not likely to escape detection.

Does ammonia refrigeration help reduce my food bill?

Generally speaking, ammonia refrigeration systems cost 10-20% less to install than systems using competitive industrial refrigerants. Thermodynamically, ammonia is 3-10% more efficient than competitive refrigerants; as a result ammonia systems use less electricity than competitive refrigerants. The cost of ammonia itself is significantly less than competitive industrial refrigerants and lesser ammonia is also generally required to do the job as compared to other industrial refrigerants. All of that add up to lower operating costs for food processors and cold storage facility operators. Therefore, lower grocery bills for the average household.

Do lower energy demands benefit the environment?

Proper environmental impact assessment of refrigerants and their systems require consideration of both, direct and indirect contribution to global warming. Refrigeration systems directly contribute to global warming through the greenhouse gas effect of their fugitive refrigerant emissions. They indirectly add to global warming through carbon dioxide emissions resulting from conversion of fossil fuels to energy required to operate the systems. The "Total Equivalent Warming Impact", TEWI, is defined as the sum of these direct and indirect contributions. Ammonia's TEWI score is very low because ammonia itself does not contribute to global warming. In addition, due to highly favourable thermodynamic properties, ammonia refrigeration systems require less primary energy as compared to other commonly used refrigerants. As a result, there is an indirect benefit of lower CO_2 emissions from electric power plants. In effect, helping to reduce global warming.

OUR PRODUCTS

AMMONIA REFRIGERATION VALVES

SHUT OFF VALVES

SUPER 1968 shut off valves are designed specifically for use in industrial ammonia and large commercial halocarbon refrigeration systems. These rugged valves are a reliable component for modern industrial refrigeration applications and suitable for liquid, suction, hot gas, discharge, recirculating liquid and oil lines. These are designed to give favourable flow characteristics and, are easy to dismantle and repair when necessary. The valves are designed to ensure perfect closing to withstand a high system pulsation and vibration, which can be present specifically in the discharge line.

FEATURES

- SUPER 1968 shut off valves are available in angle way and straight way versions.
- Internal PTFE back seating design to replace seal while the valve is still operating.
- Non asbestos gaskets.
- Safe working pressure: 400 psig (27 bar).
- Temperature range: -60^{0} F to +240^{0}F (-51^{0}C to +116^{0}C).
- The valve is designed to withstand high internal pressure. However, the piping system in general should be designed to avoid liquid traps and reduce the risk of hydraulic pressure caused by thermal expansion.
- Extended neck provides greater insulation clearance.
- Individual pressure testing of each valve.
- All components are manufactured on CNC machines.
- High tensile bolts, used to tighten the bonnet, give extra life to the valves.
- All valves are painted with premium quality paint that protects valves in all weather conditions.
- Suitable for R717 (Ammonia), R744 (CO_2), HCFC & HFC, chemical and petrochemical applications.
- The temperature range of the packaging gland ensures perfect tightness in the whole temperature range.
- Packing glands are equipped with a scraper ring to prevent penetration of dirt and ice into the packing gland.
- Re-tighten gland nut in case of external leak.

TYPE- CIMSF (CAST IRON METAL SEAT FLANGED CONNECTION)

Port size: 1/2" - 8" (15mm to 200mm)
Body: Closed grain cast iron
Spindle: Stainless steel

Stem sealing: Ammonia gland
Back seating: Non metallic






TYPE- CIMSS (CAST IRON METAL SEAT SCREWED CONNECTION)

Port size: 1/4" - 1" (6mm to 25mm)
Body: Closed grain cast iron
Spindle: Stainless steel

Stem sealing: Ammonia gland
Back seating: Non metallic






TYPE- CITSF (CAST IRON TEFLON SEAT FLANGED CONNECTION)

Port size: 1/2" - 8" (15mm to 200mm)
Body: Closed grain cast iron
Spindle: Leak and corrosion free stainless steel

- Non metallic special polymer seal provides leak proof sealing.
- Non metallic front and back seating.
- Perfect stem sealing with special O-rings and ammonia glands, providing double sealing and preventing dust entry.
- A teflon tightening ring provides perfect sealing with minimum closing force.






TYPE- CITSS (CAST IRON TEFLON SEAT SCREWED CONNECTION)

Port size: 1/4" - 1" (6mm to 25mm)
Body: Closed grain cast iron
Spindle: Leak and corrosion free stainless steel

- Non metallic special polymer seal provides leak proof sealing.
- Non metallic front and back seating.
- Perfect stem sealing with special O-rings and ammonia glands, providing double sealing and preventing dust entry.
- A teflon tightening ring provides perfect sealing with minimum closing force.



TYPE- CITSFY (CAST IRON TEFLON SEAT FLANGED CONNECTION Y-TYPE)

Port size: 1/2" - 8" (15mm to 200mm)
Body: Closed grain cast iron
Spindle: Leak and corrosion free stainless steel

- Redesigned to minimise pressure drop.
- Light weight and compact for easy handling and installation.
- Can accept flow in either direction.
- Non metallic special polymer seal provides leak proof sealing.
- Linear flow pattern globe bodies with full size ports for low pressure drop, saving energy.
- Non metallic front and back seating.
- Perfect stem sealing with special O-rings and ammonia glands, providing double sealing and preventing dust entry.
- A teflon tightening ring provides perfect sealing with minimum closing force.

TYPE- CITSSY (CAST IRON TEFLON SEAT SCREWED CONNECTION Y-TYPE)

Port size: 1/4" - 1" (6mm to 25mm)
Body: Closed grain cast iron
Spindle: Leak and corrosion free stainless steel

- Redesigned to minimise pressure drop.
- Light weight and compact for easy handling and installation.
- Can accept flow in either direction.
- Non metallic special polymer seal provides leak proof sealing.
- Linear flow pattern globe bodies with full size ports for low pressure drop, saving energy.
- Non metallic front and back seating.
- Perfect stem sealing with special O-rings and ammonia glands, providing double sealing and preventing dust entry.
- A teflon tightening ring provides perfect sealing with minimum closing force.

TYPE- CSTSW (CAST STEEL TEFLON SEAT WELDABLE CONNECTION)

Port size: 1/2" - 12" (15mm to 300mm)

Spindle: Leak and corrosion free stainless steel

- Easy to replace the top part and no welding is needed.
- Light weight and compact for easy handling and installation.
- Redesigned to minimise pressure drop.
- Can accept flow in either direction (straight type).
- Bodies casted with lost wax casting process.
- Non metallic special polymer seal provides leak proof sealing.
- Linear flow pattern globe bodies with full size ports for low pressure drop, saving energy.
- Non metallic front and back seating.
- These valves are welded directly to the steel piping, eliminating potential leaky flanges or threaded joints.
- Perfect stem sealing with special O-rings and ammonia glands, providing double sealing and preventing dust entry.
- A teflon tightening ring provides perfect sealing with minimum closing force.

HAND EXPANSION/NEEDLE/REGULATING VALVES

SUPER 1968 hand expansion valves are ideal for metering or flashing expansion of liquid refrigerant.

Application areas:

- Liquid feed or circulating liquid feed evaporators.
- High pressure or intermediate pressure liquid feed to accumulators.
- Intercoolers or recirculators.
- Defrost condensate relief.

FEATURES

- SUPER 1968 hand expansion valves are available in angle way and straight way versions.
- Internal PTFE back seating design to replace seal while the valve is still operating.
- Dual function- expansion and isolation.
- Non asbestos gaskets.
- Hand wheels are red in colour so as to distinguish these valves from shut off valves.
- Safe working pressure: 400 psig (27 bar).
- Temperature range: -60^0 F to +240^0 F (-51^0 C to +116^0 C).
- Extended neck provides greater insulation clearance.
- Individual pressure testing of each valve.
- All components are manufactured on CNC machines.
- Can be used as stop valve in closed position.
- Designed to achieve precise flow regulation.
- The valve is designed to withstand high internal pressure. However, the piping system in general should be designed to avoid liquid traps and reduce the risk of hydraulic pressure caused by thermal expansion.
- High tensile bolts used to tighten bonnet give extra life to the valves.
- All valves are painted with premium quality paint that protects valves in all weather conditions.
- Suitable for R717 (Ammonia), R744 (CO_2), HCFC & HFC, chemical and petrochemical applications.
- The full temperature range packing gland ensures perfect tightness in the whole temperature range.

TYPE- CIMSFR (CAST IRON METAL SEAT FLANGED CONNECTION REGULATING)

Port size: 1/2" - 2" (15mm to 50mm)
Body: Closed grain cast iron
Spindle: Stainless steel
Stem sealing: Ammonia gland
Back seating: Non metallic






TYPE- CIMSSR (CAST IRON METAL SEAT SCREWED CONNECTION REGULATING)

Port size: 1/4" - 1" (6mm to 25mm)
Body: Closed grain cast iron
Spindle: Stainless steel
Stem sealing: Ammonia gland
Back seating: Non metallic



TYPE- CIMSFYR (CAST IRON METAL SEAT FLANGED CONNECTION Y-TYPE REGULATING)

Port size: 1/2" - 2" (15mm to 50mm)
Body: Closed grain cast iron
Spindle: Leak and corrosion free stainless steel

- Redesigned to minimise pressure drop.
- Light weight and compact for easy handling and installation.
- Linear flow pattern globe bodies with full size ports for low pressure drop, saving energy.
- Perfect stem sealing with special O-rings and ammonia glands, providing double sealing and preventing dust entry.
- Non metallic back seating.



TYPE- CIMSSYR (CAST IRON METAL SEAT SCREWED CONNECTION Y-TYPE REGULATING)

Port size: 1/4" - 1" (6mm to 25mm)
Body: Closed grain cast iron
Spindle: Leak and corrosion free stainless steel

- Redesigned to minimise pressure drop.
- Light weight and compact for easy handling and installation.
- Linear flow pattern globe bodies with full size ports for low pressure drop, saving energy.
- Non metallic back seating.



TYPE- CSTSWR (CAST STEEL TEFLON SEAT WELDABLE CONNECTION REGULATING)

Port size: 1/2" - 2" (15mm to 50mm)
Spindle: Leak and corrosion free stainless steel

- Easy to replace the top part and no welding is needed.
- Light weight and compact for easy handling and installation.
- Redesigned to minimise pressure drop.
- Bodies casted with lost wax casting process.
- Linear flow pattern globe bodies with full size ports for low pressure drop, saving energy.
- Perfect stem sealing with special O-rings and ammonia glands, providing double sealing and preventing dust entry.
- Non metallic back seating.
- These valves are welded directly to the steel piping, eliminating potential leaky flanges or threaded joints.



CHECK VALVES

TYPE- PCICVF (PISTON TYPE CAST IRON CHECK VALVE FLANGED)

These flanged, heavy duty, piston type check valves control the flow of refrigerant. Valves open wide for flow in the direction of the arrow shown on the valve body and close when a reverse flow occurs. These are suitable for compressor or pump discharge, hot gas lines and pulsating pressure applications including side port to screw compressors. These valves have metal to metal seat. Suitable for R717 (Ammonia), R744 (CO_2), HCFC & HFC.

Port size: 1" - 6" (25mm to 150mm)
Body: Closed grain cast iron

- High flow velocity.
- Resists chatter.
- Gravity closing.
- Manual opening stem.
- Minimal pressure drop.
- Serviceable bonnet.
- Safe working pressure: 400 psig (27 bar).
- Temperature range: -60°F to +240°F (-51°C to +116°C).

TYPE- ILCVF (IN LINE CHECK VALVE FLANGED)

These compact, flanged in line check valves open wide for flow in the direction of the arrow shown on the body, and close when pressure reversal occurs. Seat disc and springs are made of stainless steel. Suitable for R717 (Ammonia), R744 (CO_2), HCFC & HFC. Typically used in hot gas, discharge lines, suction lines and liquid lines.

Port size: 1" - 4" (25mm to 100mm)

- Low pressure drop.
- Mounts in any position.
- Compact size.
- Stainless steel disc.
- Prevents back condensation from warm evaporator to cold evaporator.
- Safe working pressure: 400 psig (27 bar).
- Temperature range: -60°F to +240°F (-51°C to +116°C).
- Closes instantly when flow reversal occurs.
- Valve cone has a teflon tightening ring that renders perfect sealing at a minimum closing force.

TYPE- SCCVW (STOP CUM CHECK VALVE WELDABLE)

These durable valves are a combination of stop valve and check valve. Valves open wide for full flow in the direction of the arrow shown on the valve body and promptly shut when reverse flow occurs. These stop cum check valves are socket welded type and are directly welded to the steel piping, eliminating potential leaky flange joints. These valves are ideal for liquid pump and compressor discharge applications. Their design makes them particularly well suited for small package equipment and compact assemblies where space may not be available for two separate valves.

Port size: 1" - 6" (25mm to 150mm)

- Available in angle way and straight way versions.
- Avoids separate check valve.
- Use of these combination valves reduces pressure drop.
- Minimises space requirement.
- Simplifies installation.
- Easy to dismantle for examination and maintainence.
- Valve cone has built in flexibility to ensure tight and perfect closing with valve seat.
- Back seated type so that the seal can be replaced while the valve is still operating.
- Designed to operate at a very low differential pressure.
- Suitable for R717 (Ammonia), R744(CO_2), HCFC & HFC.
- Safe working pressure: 400 psig (27 bar).

STRAINER VALVES

These rugged refrigerant strainers (filters) are designed to remove foreign materials such as dirt and weld slag from refrigeration systems. Strainers help prevent damage to valves and other components, reducing costly service and downtime. Strainers are usually installed close to regulating valves, solenoid valves and other flanged valves. These are designed for liquid and suction line application. They provide free flow with negligible pressure drop.

FEATURES

- Access for easy removal of filter assembly.
- Cleaning and inspection without breaking the line connection.
- Stainless steel mesh.
- Maximum affective filter area.
- Special design with minimum possibility of bursting filter assembly.
- Proper sealing ensures no bypass of dirt or foreign particles.
- Suitable for R717 (Ammonia), R744 (CO_2), HCFC & HFC.
- Safe working pressure: 400 psig (27 bar).

TYPE- CISF/CISS (CAST IRON STRAINER FLANGED/SCREWED CONNECTION)

Port size (flanged): 1/2" - 6" (15mm to 150mm)
Body: Closed grain cast iron

Port size (screwed): 1/2" - 1" (15mm to 25mm)
Body: Closed grain cast iron

TYPE- CISFY (CAST IRON STRAINER FLANGED CONNECTION Y-TYPE)

Port size: 1 1/4" - 6" (32mm to 150mm)
Body: Closed grain cast iron



TYPE- SW (STRAINER SOCKET WELDABLE CONNECTION)

Port size: 1/2" - 6" (15mm to 150mm)

- Light weight and compact for easy handling and installation.
- Bodies casted with lost wax casting process.
- These valves are welded directly to the steel piping, eliminating potential leaky flanges or threaded joints.



FLOW INDICATORS

Flow indicators provide simple indication of flow of refrigerant in industrial and commercial refrigeration systems.

TYPE FIF (FLOW INDICATOR FLANGED CONNECTION)

Port size: 1" - 2" (25mm to 50mm)

TEE VALVE

SUPER 1968 tee valves are available only in screwed type. Our assortment of tee valves flow in two directions in angular form.

TYPE CIMSS (CAST IRON METAL SEAT SCREWED)

Port size: 1/2" - 1" (15mm to 25mm)
Body: Closed grain cast iron



TYPE CITSS (CAST IRON TEFLON SEAT SCREWED)

Port size: 1/2" - 1" (15mm to 25mm)
Body: Closed grain cast iron

- Perfect stem sealing with special O-rings and ammonia glands, providing double sealing and preventing dust entry.



SAFETY RELIEF VALVES

SUPER 1968 safety relief valves are made for industrial and large commercial refrigeration systems. These valves are designed to provide relief from excessive pressure in refrigerant containing vessels. All refrigerant systems' pressure vessels require pressure relief devices to safely release pressure in case of fire or other abnormal conditions. Once installed, our safety relief valve is ready to vent to atmosphere, any temporary excessive pressure inside the vessel. After discharge, these valves will attempt to reseat, minimising loss of refrigerant. However, once any relief valve has discharged, it is recommended to get the valve cleaned and pressure reset, as once discharged debris may have settled on the seat.

TYPE- CISRS (CAST IRON SAFETY RELIEF VALVES SCREWED CONNECTION)

Sizes: (Inlet and outlet) BSPTM
15mm X 20mm
15mm X 25mm
20mm X 20mm
20mm X 25mm
25mm X 25mm

Features
Body: Closed grain cast iron
- Tamper resistant.
- Accurately set and sealed by qualified technicians.
- Available in angle way version.
- Safe working pressure: 400 psig (27 bar).
- Temperature range: -60^{0}F to +240^{0}F (-51^{0}C to +116^{0}C).
- Pressure rating: 150 to 350 psig (10.4 to 24 bar).
- Suitable for R717 (Ammonia), R744 (CO_2), HCFC & HFC.

PRESSURE GAUGE VALVES

SUPER 1968 gauge valves are designed to meet all refrigeration application requirements.

TYPE PGVW (PRESSURE GAUGE VALVE WELDABLE CONNECTION)

Port size: 8mm, 10mm & 12mm
- Suitable for R717 (Ammonia), R744 (CO_2), HCFC & HFC.
- Compact and light weight for easy handling and installation.
- Provides high flow characteristics.
- Safe working pressure: 400 psig (27 bar).
- Temperature range: -60^{0}F to +240^{0}F (-51C^{0}C to +116^{0}C).

THREE WAY DUAL RELIEF VALVE MANIFOLD

SUPER 1968 dual relief valve manifold meets the requirements of ANSI/ASHRAE15-1994 safety code for mechanical refrigeration (pressure vessels having 10 cubic feet or more of internal gross volume shall be fitted with dual pressure relief valve). On this dual manifold, 2 safety valves are installed, out of which only 1 valve remains operational at a time, while the other is being replaced, eliminating the need to remove refrigerant from the vessel.

TYPE- CIDSRS (CAST IRON DUAL SAFETY RELIEF VALVES SCREWED CONNECTION)

Sizes: 15mm, 20mm & 25mm
Body: Closed grain cast iron

- No isolation valve required, giving more safety.
- One valve can be repaired or reset at any time.
- Temperature range: -60°F to +240°F (-51°C to +116°C).
- Pressure rating: 150 to 350 psig (10.4 to 24 bar).
- Suitable for R717 (Ammonia), R744 (CO_2), HCFC & HFC.

QUICK CLOSING OIL DRAIN VALVE

SUPER 1968 quick closing oil drain valves are used for draining oil from systems containing refrigerant under pressure. The valve will close immediately upon release of the handle, thus protecting unnecessary refrigerant leak.

TYPE-QCODW (QUICK CLOSING OIL DRAIN VALVE WELDABLE CONNECTION)

Sizes: 20mm butt weld with union nut

- Meets the safety demands specified by national and international authorities.
- Stainless steel stem.
- Spring loaded quick closing action.
- Temperature range: -60°F to +240°F (-51°C to +116°C).
- Safe working pressure: 400 psig (27 bar).
- Suitable for R717 (Ammonia).

ANGLE GAUGE VALVES

SUPER 1968 angle type gauge valves are installed on receivers and accumulators for fixing gauge glass tube that indicates liquid level in pressure vessels. Two valves are used for fixing one set of liquid level tube. In case of glass break, the balls inside the valve stop the refrigeration flow immediately.

TYPE AGVS (ANGLE GAUGE VALVE SCREWED CONNECTION)

Port size: 1/2"X3/4" (Inlet and outlet)

REFLEX GLASS LIQUID LEVEL INDICATOR

Liquid level indicators are equipped with boron silicate glass, hardened by an accurately controlled heat treatment process. These level indicators are used to display the level of ammonia gas in the system. The liquid level indicators are installed with stop valves equipped with handwheels. The liquid chamber is a one piece metal body covered by glass. The light striking the glass in the liquid portion is absorbed by the liquid whereas the light striking the glass in the vapour portion is reflected, making the liquid appear black.

TYPE RGLLI (REFLEX GLASS LIQUID LEVEL INDICATOR)

Sizes: 12", 18", 24", 30", 36", 42" , 48" , 54", 60"

- Gives safe and positive visual indication of liquid level in vessel under high pressure and temperature conditions.
- Suitable for R717 (Ammonia), HCFC & HFC.
- In case of glass break, the balls inside the valve stop the refrigeration flow immediately.
- Tempered boron silicate glass resistant to chemical, thermal and mechanical shocks.
- Safe working pressure: 400 psig (27 bar).
- Large chambers for boiling, flashing and surging liquids.

ELECTRONIC LIQUID LEVEL CONTROLLER

These electronic liquid level controllers are used to indicate or regulate liquid level in various refrigeration applications. These controllers are typically installed on a vessel's liquid level column. They can control the liquid level by controlling a liquid fill solenoid valve. Often they are used to provide high level cut out or alarm. In addition, they can be used to turn off a recirculating liquid pump if a low level occurs. Each unit consists of a float chamber and an electronic controller. The electronic controller has a bar graph display module installed to continuosly display the rising and falling of the liquid level inside the float chamber.

TYPE ELLC (ELECTRONIC LIQUID LEVEL CONTROLLER)- FLANGED CONNECTION

- Suitable for R717 (Ammonia), R22, R502, R404A, etc.
- Differential adjustable between 10mm to 40mm.
- Maximum operating pressure for float housing: 19 bar.
- Enclosure for float housing IP65 amplifier/controller is available in IP65 wall mounting enclosure or DIN 1/4 for panel mounting enclosure.
- Float chamber and amplifier are also available in flame proof enclosure.

FLOAT SWITCH

Electro mechanical float switches are designed to provide a reliable electro mechanical response to liquid level changes. These can control the liquid level in vessels and accumulators or can be used as high/low level safety alarms. The design incorporates a mechanical float that will operate in the refrigerant. When the set level is reached, an electrical volt free micro switch gets activated.

TYPE MFS (MECHANICAL FLOAT SWITCH) - FLANGED CONNECTION

- Suitable for R717 (Ammonia), R22, R502, R404A, etc.
- Max. operating pressure: 28 bar.
- Operating Temperature range: -50°C to +65°C.
- The switch box can be placed in any position for ease of installation.
- Adjustable liquid level differential switch point.
- The complete switch box can be easily replaced without any interference with the refrigeration system.
- Also available in flame proof enclosure.
- Normally open (NO) and normally closed (NC) function.
- Transparent switch box cover for visual indication.

AMMONIA SOLENOID VALVES

Solenoid valves are designed and built specifically for industrial refrigeration. The main function of an electrically operated solenoid valve is to automatically control the flow of fluids, liquids and gases. These valves can be installed in suction lines, return lines (liquid/vapour), pressure equalising lines and bypass lines. These are direct acting or pilot operated.

TYPE ASV (AMMONIA SOLENOID VALVES) - FLANGED CONNECTION

Size: 1/2" - 2" (15mm to 50mm)

- These high quality valves are compact, strong-bodied and reliable.
- Each valve is tested to ensure reliable operation, safety and tightness.
- Available with and without strainers.
- Suitable for R717 (Ammonia), R22, R134A, etc.
- Temperature of medium: -40°C to +80°C.

FLANGES

TYPE WF (WELDABLE FLANGES)

Size: 15mm to 200mm

- SUPER 1968 weldable flanges are tongue and groove type.
- These are available in flange kit along with nuts, bolts and gaskets.
- Depending on the size, these flanges come in oval, square and round shape.
- Suitable for all common refrigerants including R-717 (Ammonia), R-22 and R-134A.
- Safe working pressure: 25 bar.

OTHER PRODUCTS

AMMONIA REFRIGERATION CONTROLS/VALVES

Multi function valve stations
Servo operated solenoid valves
Two-step on/off solenoid valves
Pressure and temperature regulators, and pilot valves
Constant pressure valves
Overflow valves
Automatic liquid flow regulators
Automatic liquid drainers
Ammonia ball valves

REFRIGERATION COMPRESSOR AND SPARES

Refrigeration compressors
Refrigeration compressor spares

AMMONIA EVAPORATORS

Ammonia air cooling units/blast freezers
Shell and tube chillers
Trunk coil for ice plants
Ice bank coils
Ammonia plate heat exchangers (evaporator application)
Ammonia plate freezers
Ammonia diffusers
Spiral finned bunker for cold storages
Ammonia IQF

AMMONIA CONDENSERS

Ammonia atmospheric condensers
Ammonia evaporative condensers
Ammonia shell and tube condensers
Ammonia plate freezers (condenser application)

AMMONIA PRESSURE VESSELS

Ammonia high pressure/low pressure receivers
Ammonia oil separators
Ammonia vertical accumulators
Ammonia horizontal accumulators
Ammonia gas and liquid coolers
Dish ends for pressure vessels

AMMONIA LIQUID PUMP/RECIRCULATION SYSTEMS

Liquid ammonia pumps
Liquid overfeed systems

COLD STORAGE EQUIPMENT

Air curtains
PVC strip curtains
Cold storage doors/windows
Cold storage door locks/hinges
CO_2 extraction system for cold storages
Cold room alarms
Cold storage automation
Prefabricated puff cold rooms
Roof top solar solution for cold storages

ICE PLANT EQUIPMENT

Ice cans
Agitators
Hand hoist/slide rails
Rotary blowers
Can dumps
Ice crusher machines
Pre-insulated brine tank for ice plants
Mini moveable ice plants
Ammonia tube ice machines
Ammonia flake ice machines

AMMONIA REFRIGERATION PLANT MACHINERY

Ammonia chillers
Ammonia refrigeration system for breweries
Ammonia condensing units
Ammonia purifiers
Automatic gas purgers
Spray galvanizing

AMMONIA REFRIGERATION PLANT ACCESSORIES

Safety masks
Ammonia leak detectors
Ice thickness controllers
Frost controls
CO_2 portable hand held devices
Pressure transmitters

Electronic humidity sensors and transmitters

Gas sensors/transmitters

Electronic temperature sensors

Coils for solenoid valve and level controllers

Pressure gauges for ammonia

Axial flow fans

Rotary blowers and housing for diffusers

Compressor panel boards

Ammonia gas charging pipes

Thermometers

Pipe fittings

Ethylene spray for ripening chambers

Refrigeration compressor oil

Ammonia glands, ammonia valve O-rings, ammonia valve teflon rings, flange gaskets, door and window gaskets, air agitation systems for ice plants, teflon threading tapes, agitation pipes

CAPACITY CONTROLLERS/DIGITAL TEMPERATURE INDICATORS AND CONTROLLERS/ DATA LOGGERS

Microcontroller based compressor capacity controllers

Compressor/chiller controllers

Screw compressor capacity controllers

Reciprocating compressor controllers

Digital pressure indicators/indicating controllers

Digital temperature relative humidity indicators and indicator controllers

Digital gas indicators and indicating controllers

Microcontroller based multi function temperature controllers

Hand held digital thermometer/battery operated temperature indicators

Multi channel temperature indicators

Multi point alarm annunciators

Frost controls

FREON REFRIGERATION EQUIPMENT

Semi hermetic reciprocating compressors

Open type high and slow speed compressors

Air cooled and water cooled condensing units

Suspension type air coolers

Blast freezers

Rack units

Shell and tube condensers

Freon based ripening chambers

AMMONIA REFRIGERATION PLANT TURNKEY SOLUTIONS

We provide turnkey solutions for ammonia refrigeration systems for applications such as cold storages, ice plants, ice cream plants, process chillers for chemical industry, food and beverage processing, plastic industry, flake ice machines, tube ice machines for concrete cooling, low temperature ammonia refrigeration systems required for food processing industries, plate freezers, IQF, blast freezers, freezer rooms especially for meat industry and fisheries, ready to eat food industry, and green peas/corn freezing.

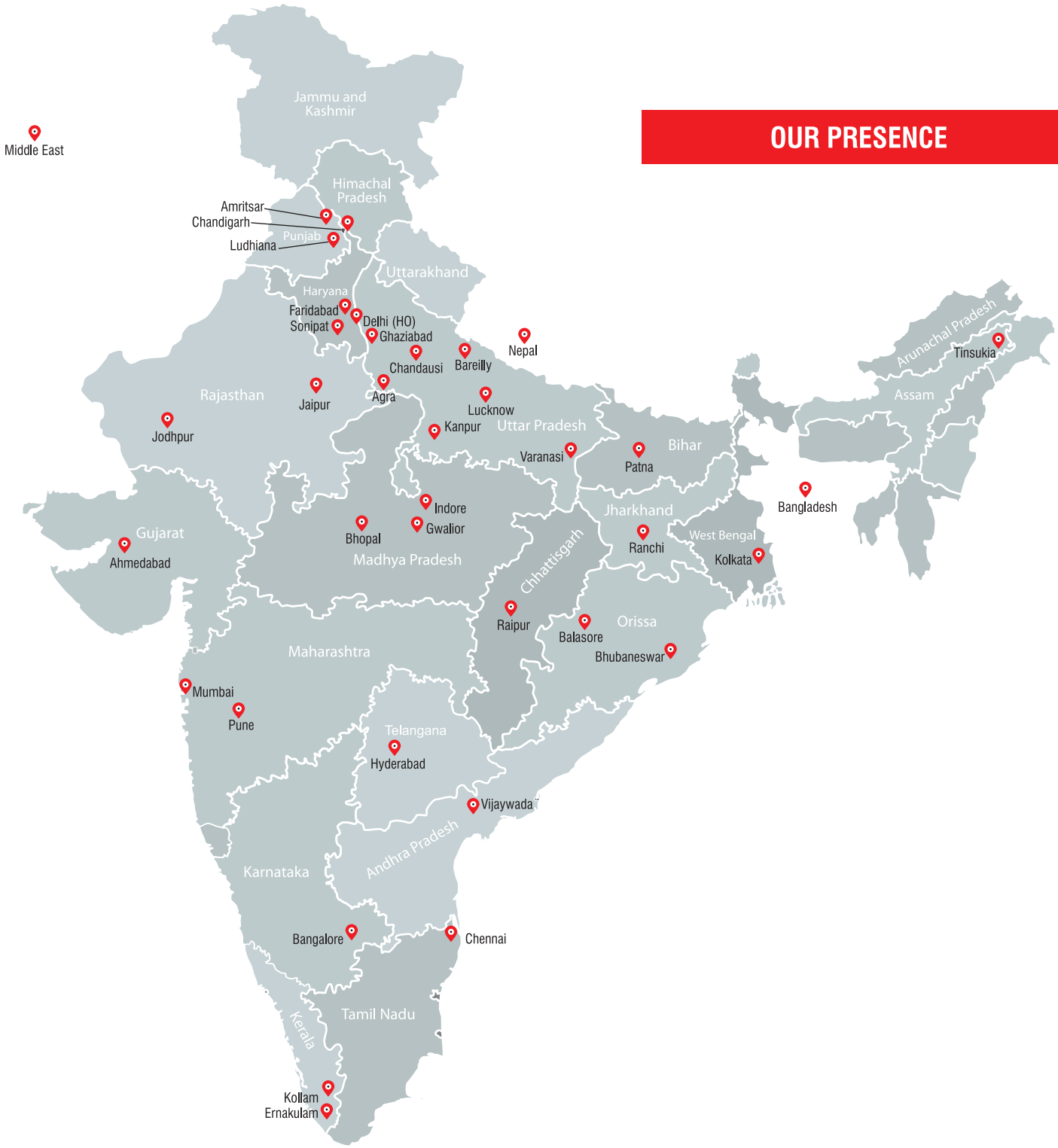
We also provide dairy refrigeration systems for milk processing such as IBT (Ice Bank Tank) besides constant temperature water/brine chillers.

We provide a varied range of compressor systems with reciprocating as well as screw compressors for ammonia application, depending upon the system requirement and customers' ease. Proper designing, selection of good quality of material, equipment, controls and pressure vessels, and quality workmanship make our packages and systems guaranteed trouble free solutions for the customers.

We offer compact ammonia packages that save space. The packages are designed to meet space constraints. All necessary equipment are mounted on the skid to avoid onsite work, properly flushed, pressure tested and dispatched. We also offer onsite installation as per the customers' requirements.

For this, we provide assistance to our clients right from planning and equipment supply to installation and operation. Further, we also customise these projects as per the specific requirements of our clients.

OUR PRESENCE



Authorised distributor

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