

Made in India for World Since 1978



Controls, Control Valves & Hand Operated Valves for Ammonia Refrigeration

ONLY INDIAN COMPANY WITH CE & PED CERTIFICATION FOR AMMONIA VALVES & CONTROL VALVES



by

Anand Joshi

Past President AAR

Past President ISHRAE Pune

Member EEPCC, IGCC, IETE, IDA, RATA .



Company Highlights

- Manik Engineers India is a part of the Manik Group of Industries, which has been manufacturing refrigeration controls since 1978.
- The Manik Group of Industries is involved in various segments such as refrigeration controls, valves, timers for dust collector bag filters, energy saving equipments, heat recovery systems and movies.
- The total group turnover of Manik Group of Industries is US\$ 5.5 million.
- The company has 120 employees.
- Manik Engineers is highly regarded as an outstanding supplier for refrigeration controls in India by OEMs and the Refrigeration Industry.
- Manik Engineers is ISO9001:2015 Certified and all our products are CE/PED approved.

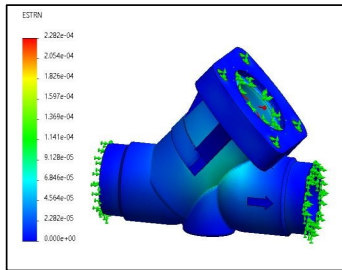


Manufacturing Setup, Design and Testing capabilities

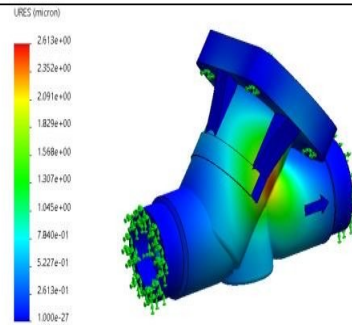
- The manufacturing setup is located in Pune, India's capital of the refrigeration industry.
- Manufacturing facility covering approximately 16,000 sq. feet of area.
- Manik Engineers has a dedicated R&D center of 3,000 sq. feet with inhouse design facility for quick and safe development.
- World Class Machining capability with 30+ machining centers.
- 100% inspection of all parts is carried out and 100% Testing of all valves is done as part of a strict quality control plan.
- Japanese Manufacturing Methodologies implemented such as 5S(Sort, Set in Order, Shine, Standardize, Sustain) and focus on LEAN manufacturing.
- FIFO (First In, First Out) system followed for material handling.
- CAPAs (Corrective and Preventive Actions) maintained for customer complaints and vendor rejection.
- Quality audits and trainings are conducted in-house and at vendor's end on a regular basis.

Design, Manufacturing & Testing Capabilities

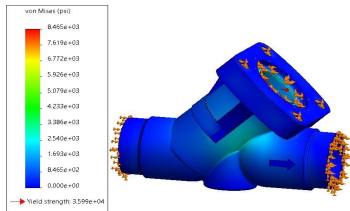
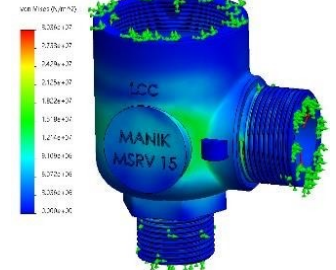
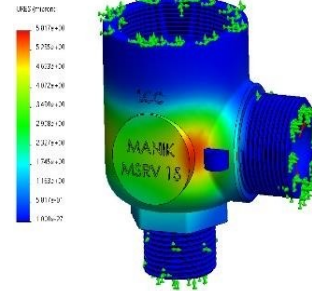
➤ In-house 3D modeling and pressure/design analysis is done via Solidworks for quick and reliable development.



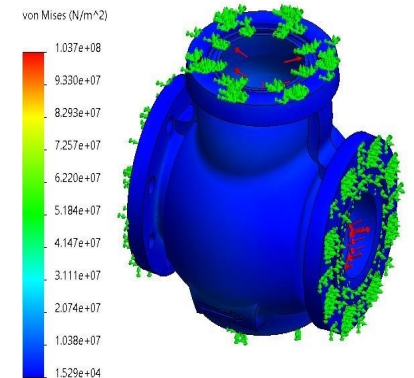
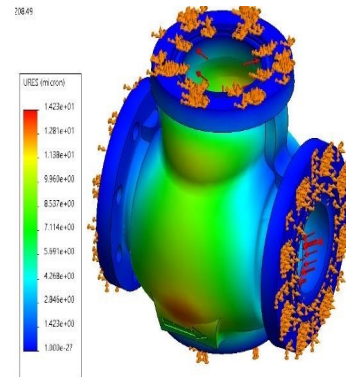
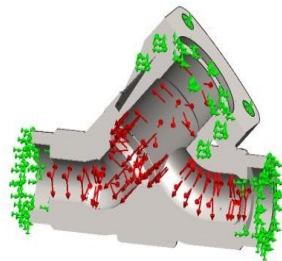
Yield Strength Analysis



Deformation Analysis



Strain Analysis



Analysis points marked in green & red.

Design, Manufacturing & Testing Capabilities

- Specialised Pressure test set-up for up to 200 bars testing with in-house development of customized jigs and fixtures.



Value added services

Customer support pre-sales and after- sales service.

- Pre-sales engineering team helps select optimum control solutions for energy-efficient plant performance and cost savings.
- Prompt after-sales service and support provided with dedicated person for customer coordination.
- Dedicated technical team for after-sales service.
- Training provided to customer team for selection, operation and maintenance of products.
- Training videos are available YouTube channel.

Aftersales service - International

- Manik engineers strives to provide excellent aftersales service to customers, whether they are OEM customers directly served by the company or customers who have purchased products through dealers.
- Our aim is to ensure that our products continue to perform optimally and meet the specific needs of our customers.

Categorization for CE/PED as per European Directive

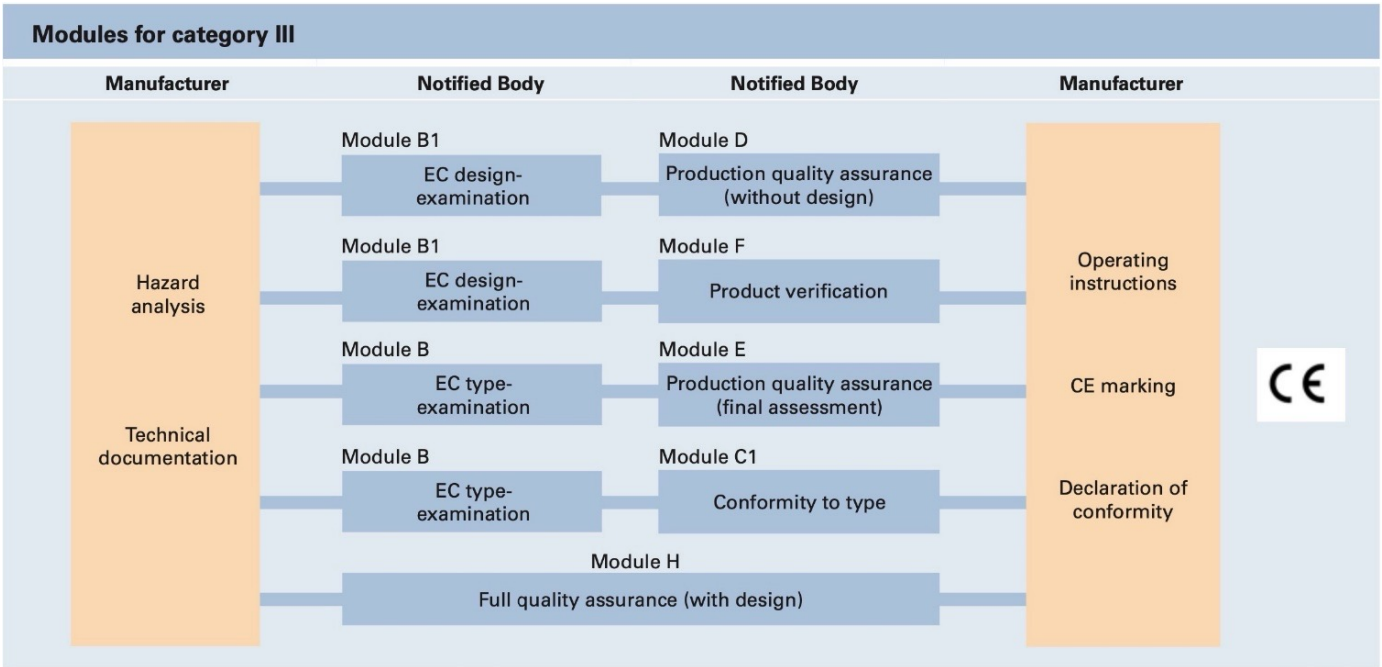
INDUSTRIAL SERVICES - PRESSURE EQUIPMENT CERTIFICATION (PED)



Pressure equipment certification.
Your key to market access in Europe.

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TÜVRheinland®
Precisely Right.



MANIK®
ENGINEERS
INDIA

CE/PED Certification, Module H, PS55 Bar



Certificate No.
10.07.12055
 Date of Issue
17/08/2023
 Valid From
17/08/2023
 The Certificate is valid until
16/08/2024
 Subject to satisfactory
 annual surveillance.

CERTIFICATE OF FULL QUALITY ASSURANCE FOR PRESSURE EQUIPMENT ACCORDING TO EUROPEAN DIRECTIVE **2014/68/EU (MODULE H)**

Applicant/ Manufacturer (Name & Address)	MANIK ENGINEERS 89/90/91 GANRAJ APPARTMENT, TULSHIBAGHWALE COLONY, SAHAKARNAGAR, PUNE - 411009, MAHARASHTRA, INDIA.
Type of Pressure Equipment	STOP VALVES (STOP/REGULATING/STOP-CHECK/FILTER) & PRESSURE REGULATING VALVES
Technical Description of Pressure Equipment	Annex to this certificate
Highest Category of Pressure Equipment	III
Against the Provisions of	EUROPEAN PRESSURE EQUIPMENT DIRECTIVE 2014/68/EU, ANNEX III (MODULE H)
Scope of Certification	DESIGN, PRODUCTION, FINAL INSPECTION AND TESTING OF PRESSURE EQUIPMENT
Audit Report No.	PEMH.10.07.12055AR
Conditions & Limitations	Each pressure equipment should be accompanied with manufacturer's declaration of conformity and instructions of use. The manufacturer must keep the notified body informed of any intended updating of the quality assurance system. The manufacturer must affix the CE Marking and Eurocert's Identification No. to each item of pressure equipment as displayed below:



1128

This is to certify that Eurocert S.A. has assessed the quality assurance system of the above-mentioned manufacturer with satisfactory results.



The data of this certificate were gathered with every possible thoroughness. This certificate reflects the findings of the time and place of the audit. Reproduction of this document is strictly forbidden.

Check the validity of the Certificate by scanning the QR code at right.
 EUROCERT S.A. 89 Chiosi & Lykourissos str., 144 52, Metamorphosi - Greece
 T +30 210 62.52.495, +30 210 62.53.927, F +30 210 62.03.018, M eurocert@eurocert.gr




Page 1 of 2



ANNEX TO CERTIFICATE No.: 10.07.12055 TECHNICAL DESCRIPTION OF PRESSURE EQUIPMENT

PRODUCT	TYPE	DN (MM)	Ps (BAR)	FLUID GROUP
STOP VALVE	MHPSV	32-200	55	1 & 2 Gas & Liquid
REGULATING VALVE	MHPRG	32-100	55	
STOP CHECK VALVE	MHPSCV	32-125	55	
FILTER VALVE	MHPFV	32-200	55	
PRESSURE REGULATING VALVE	MFR	32-125	55	
TWO STAGE SOLENOID VALVE	MTSV	32-125	55	
OIL SEPARATOR CONTROL VALVE	MOSCV	65-200	55	



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Quality Certifications



MLK
MLK International Certification and Education Services

Certificate Number: MLK-IND-9001-26102023

Manik Engineers

180, Ratnadeep, Lal Bahadur Shastri Rd, Navi Peth, Sadashiv Peth,
Pune, Maharashtra 411030

ISO 9001:2015

MLK Certification with this certificate approves that the name and address above mentioned organization's Management System has been audited and the requirements of the relevant standard above have been satisfied

"Design Development & Manufacturing of Safety Relief valves for application of industrial refrigeration"
"Manufacturing of Controls and Valves for application of industrial refrigeration."

General Manager
Murat Levent KUTUK


Certification Date : 26.10.2023
Renewal Date : 26.10.2025
Certificate Valid Up to : 26.10.2024
Certification Period : 3 Years

MLK **NAC**

This certificate is valid 3 years as of certificate date as long as the company complies with rules of MLK Certification and completes its annual surveillance audits successfully.

MLK Belgelendirme ve Eğitim Hizmetleri
Çankırı Hh. Cahit Zarfrazlı Cad. Gerdan Park Mh. No:10200 Beşiktaş - İstanbul - TÜRKİYE
www.mlkgrup.com / info@mlkgrup.com

ISO Certificate



TIC

Ref. No. TIC/11/9/22/01


To Whom it May Concern

With reference to mentioned products below. As per the Pressure Equipment Directive (2014/68/EU), all the products comes under Sound Engineering Practices (according to Article 4, Paragraph 3).

The manufacturer is liable to issue a EU declaration of Conformity after fulfillment of the directive requirements.

Product Name	TYPE	FLOW DIRECTION	Design Pressure	Hydro / Pneumatic Test Pressure	Nominal Diameter	Year Of Mfg
Check Valve	SNRVA	Straight	40Bar	40Bar	DN 15-25	2022
Gauge Valve	HGV8	Angle	55 Bar	43Bar	DN6-15	2022
Strainer	FA, TA, SA	Straight	28Bar	42Bar	DN15-25	2022
Defrost Relief valve	MDRV	Angle	55Bar	43Bar	DN20-25	2022
Dual Manifold	DSVZ,DSV3,DSVA	Angle	40Bar	40Bar	DN15-25	2022
Dead Man's Valve	MDMV	Angle	55Bar	43Bar	DN 15-20	2022
Solenoid Valve	SA, MS, MS4D, MSALSY	Straight	28Bar	42Bar	DN 3-25	2022
Pilot Valves Low Pressure	MPL-LP, MPR-DPL, MPR-OL, MPRV	Angle	28Bar	42Bar	DN25	2022
Pilot Valves High Pressure	MPL-HP, MPR-DPL, MPR-OH	Angle	55Bar	43Bar	DN25	2022
Glass Level Gauge	MGLG	Angle	30Bar	55Bar	DN15-20	2022
Level Switch	MLS39	Angle	55Bar	43Bar	DN 20-25	2022
Stop Valve (Stop, Regulating, Stop Check, Filter)	MNPSV/MNPRG, MNPSV/MNPRV	Angle, Globe	55Bar	43Bar	DN10-25	2022
Flow Regulating Valve	SPM, N44A	Straight	28Bar	42Bar	DN 25	2022
Flow Regulating Valve	FRVA	Straight	28Bar	42Bar	DN20-25	2022
Flow Switch	FS	Straight	28Bar	42Bar	DN10-25	2022

For
Tecuoropa Inspection & Certifications (P) Limited



Authorized Signatory
Amiya A. Sagar

Tecuoropa Inspection and certification Private Limited
Gokul Dst, Vittal Nagar, Ringole Block, Pune 411022, (India)
URL - www.tech-europa.com, E-mail - info@tech-europa.com

PED Certificate



FQC
FIRST QUALITY CERTIFICATION

CERTIFICATE OF CONFORMITY

Certificate No : 08.23.11485.204757

Name and Address of Certificate Owner : MANIK ENGINEERS
180, Ratnadeep, Lal Bahadur Shastri Road, Navi Peth, Sadashiv Peth, Pune-411030

Name and Address of Manufacturer : MANIK ENGINEERS
180, Ratnadeep, Lal Bahadur Shastri Road, Navi Peth, Sadashiv Peth, Pune-411030

Product Name & Type / Model (s) : As per Annex A

Product Commercial Brand : **MANIK**

Applicable EC Directive (s) : LVD (2014/35/EU) & EMC (2014/53/EU)

Applicable Harmonized Standard(s) : IEC 610101:2010 + AMD1:2016, IEC 60730-1:2022 & IEC 60731:2022

Report No : SWEN CONFORMITY
Report No: SWEN22-23/13-01 To: 17-06-06.04.2023

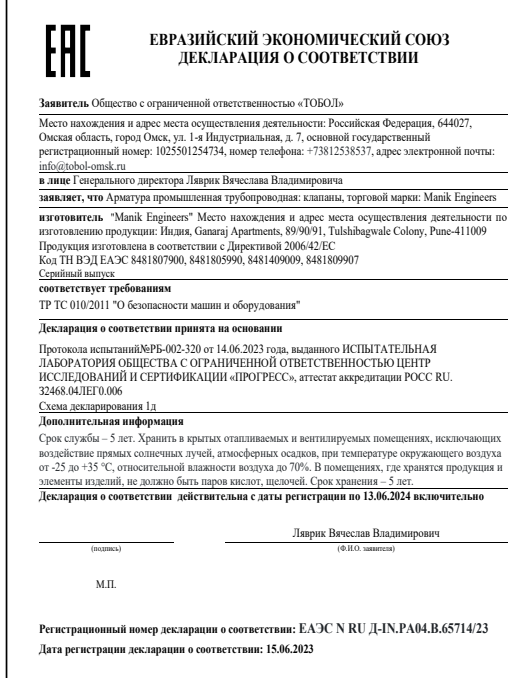
Certificate Issue Date : 19.09.2023
Certificate Expiry Date : 19.09.2028

Certification Manager

FQC STANDARD UYGUNLUK DEĞERLENDİRME A.Ş.
Etiler/Beşiktaş/İstanbul
0212 255 55 55
0216 457 09 08

İzmirliç Mah. Bahçelievler Sk. No:43 Kat:14/A Akapınar /İSTANBUL

Electronics CE Certificate



EAC **ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ**
ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ

Заявитель: Общество с ограниченной ответственностью «ТОБОЛ»
Место нахождения и адрес места осуществления деятельности: Российская Федерация, 644027, Омская область, город Омск, ул. 1-я Индустриальная, д. 7, основной государственный регистрационный номер: 1025501254734, номер телефона: +73812538537, адрес электронной почты: info@tobol-omsk.ru

в лице Генерального директора Ливрич Вячеслава Владимировича
заявляет, что Арматура промышленная трубопроводная: клапаны, торговой марки: Manik Engineers изготовитель "Manik Engineers" Место нахождения и адрес места осуществления деятельности по изготовлению продукции: Индия, Ganagaj Apartments, 89/90/91, Tulshibhagwale Colony, Pune-411009
Продукция изготовлена в соответствии с Директивой 2006/42/ЕС
Код ТН ВЭД ЕАЭС 8481807900, 8481805990, 8481409009, 8481809907

Сертификат выдан
соответствует требованиям
ТР ТС 010/2011 "О безопасности машин и оборудования"

Декларация о соответствии принята на основании
Протокола испытаний №РБ-002-320 от 14.06.2023 года, выданного ИСПЫТАТЕЛЬНАЯ ЛАБОРАТОРИЯ ОБЩЕСТВА С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ ЦЕНТР ИССЛЕДОВАНИЙ И СЕРТИФИКАЦИИ «ПРОГРЕСС», аттестат аккредитации РОСС RU.32468.04.ЛЕГО.006

Схема декларирования 1д
Дополнительная информация
Срок службы – 5 лет. Хранить в крытых отапливаемых и вентилируемых помещениях, исключающих воздействие прямых солнечных лучей, атмосферных осадков, при температуре окружающего воздуха от -25 до +35 °С, относительной влажности воздуха до 70%. В помещениях, где хранятся продукция и элементы изделий, не должно быть паров кислот, щелочей. Срок хранения – 5 лет.

Декларация о соответствии действительна с даты регистрации по 13.06.2024 включительно

Ливрич Вячеслав Владимирович
(Инициалы) (И.И.О. заявителя)

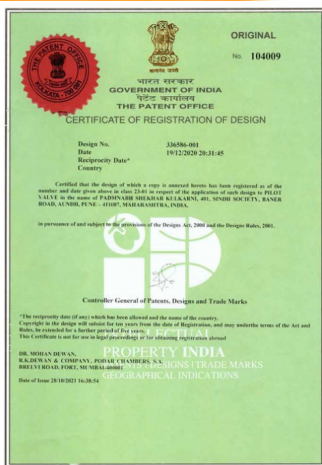
M.II.

Регистрационный номер декларации о соответствии: ЕАЭС N RU Д-И.РА04.В.65714/23
Дата регистрации декларации о соответствии: 15.06.2023

EAC: Russian Approval



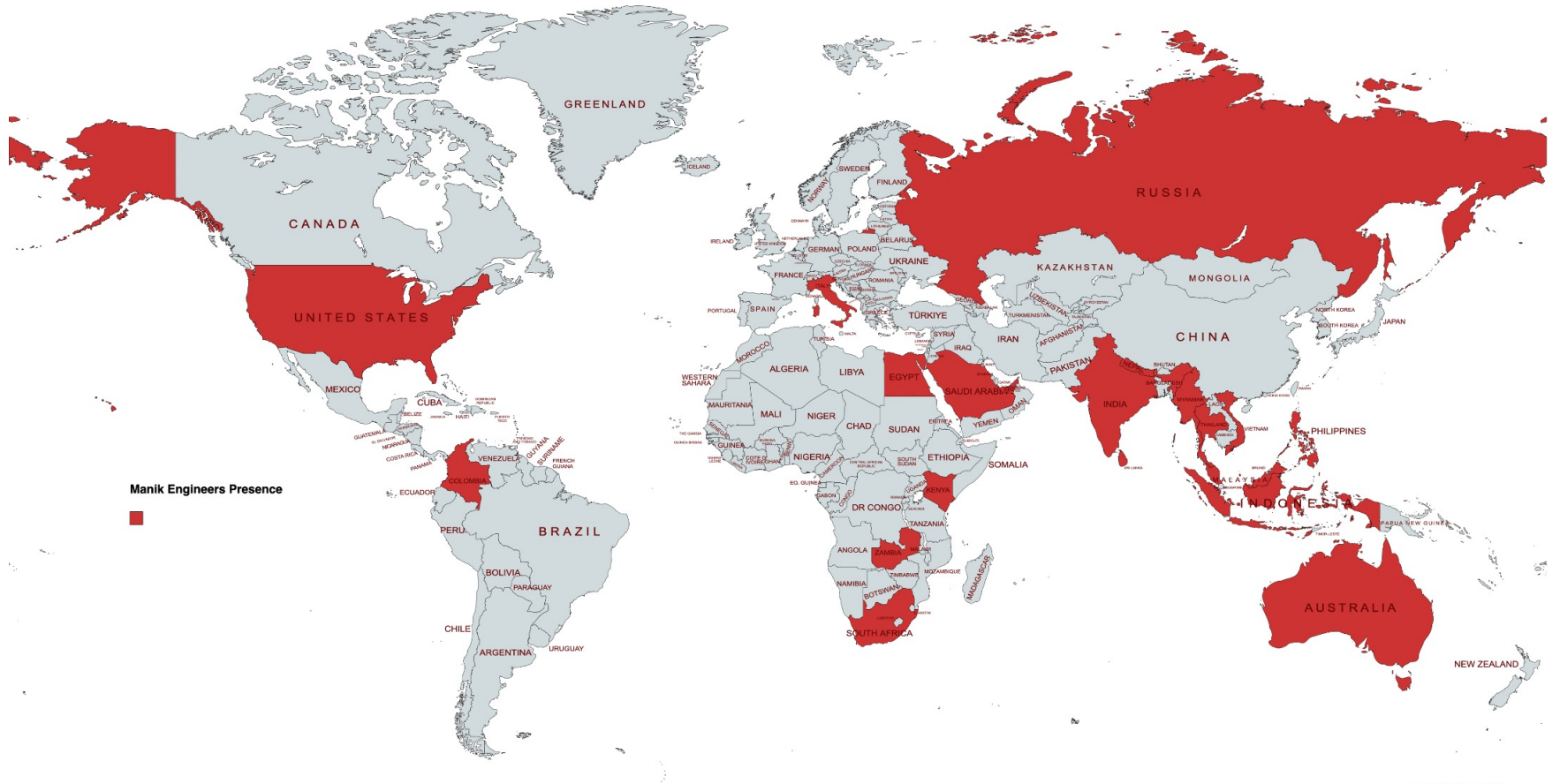
Indian and European Design (IP) Registration Certificates



- MHP Series Valves (Steel and Stainless-Steel)
 - Stop Valves
 - Regulating Valves
 - Filter Valves
 - Stop Check and Check Valves
- MRASV Series Solenoid Valves
- SA Series Solenoid Valves
- MS Series Solenoid Valves
- TA series Filters
- MGLG Liquid Level Gauges
- MFR Pressure/Temperature Regulators
- MPR Series Pilot Valves
- MGV8 Series Service Valves

- MLS39 Level Switch (Steel and Stainless-Steel)
- MDMV Dead Man's Valve
- MSGP2E Automatic Air Purger
- MDRV Defrost Relief Valve
- Ammonia sampler
- MSRV Series Safety Valves
- SH Series Safety Valves
- MDM Series Dual Manifolds
- FKD40A+41A Screw Compressor Controller
- SVRF/SMO Series Compressor Loading/Unloading Valves

Manik Export Map



➤ Approved vendor for NATO Countries for Navy.

Created with mapchart.net

Additional Advantages of Manik Engineers

- Manik manufactures a unique range of products –
 - MHP SS Stainless (SS304) stop valves (angle/straight), stop check valves , hand regulating valves, filters (strainers)
 - MGV-8 Service valves in Stainless steel SS304
 - MLS39-SS-LI float switches in stainless steel with inbuilt ON-OFF indication
 - Multipoint Automatic Air Purger. (Upto 16 different points/locations).Steel & Stainless-steel Construction
 - Ammonia Dehydrator : Steel & Stainless-steel Construction
 - Ammonia Sampler kit
 - Automatic Flow Regulating Valves with in built Non return valve (FRVA)
 - Inline Check valves with Manual Bypass
 - Safety Valve Indicators
 - Custom-made Automation Panels
 - Ammonia Sensors & Multi-point Ammonia Leak Detection System
 - Wide range of Unloader solenoid Valves
 - Solenoid valves, level controller, Pt-100 sensor, pressure sensors etc for Flame proof (Class IIA/IIB) application

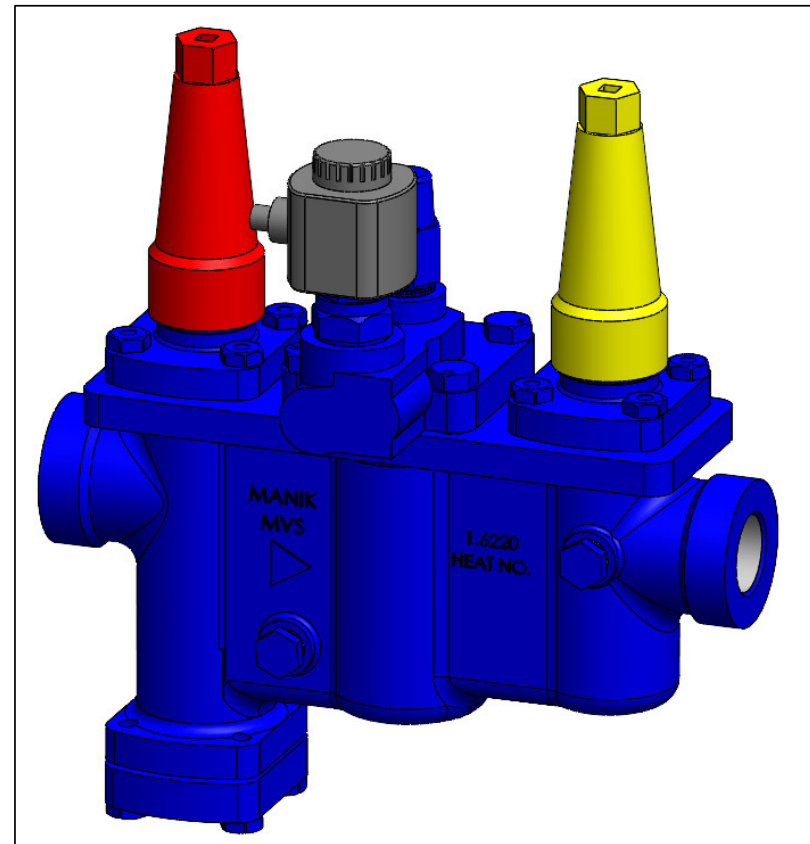
VAST PRODUCT RANGE

Manik Engineers has successfully developed around 200 different types of controls and valves for the refrigeration industry over the past 45 years. Some of our top products are highlighted in this presentation.

Multi-Function Valve Station MVS15-32



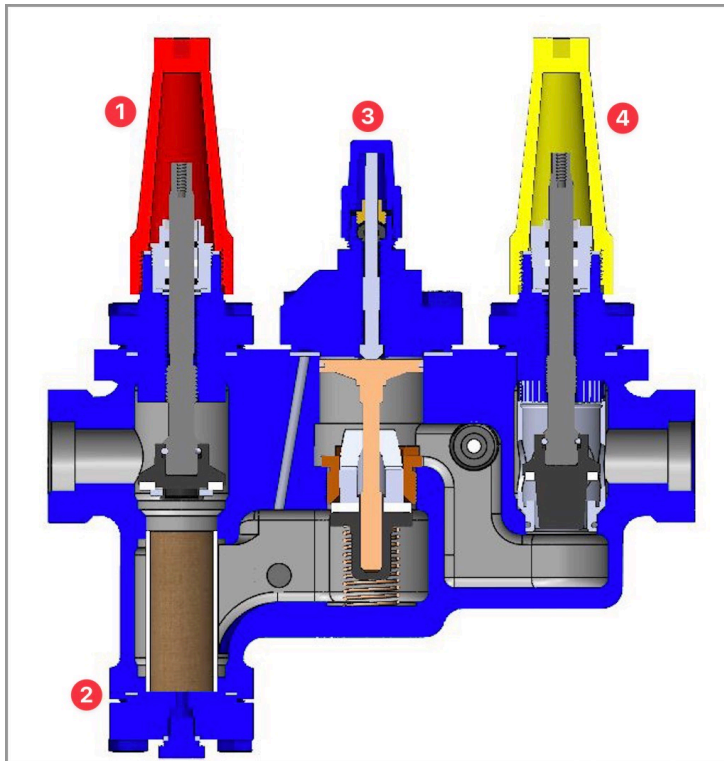
MVS15



MVS25-32

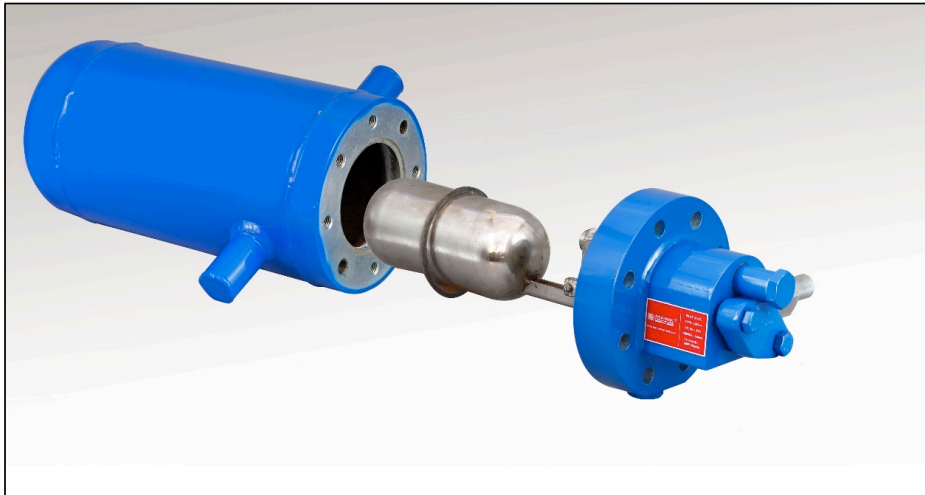
Multi-Function Valve Station MVS15-32

Typical Applications

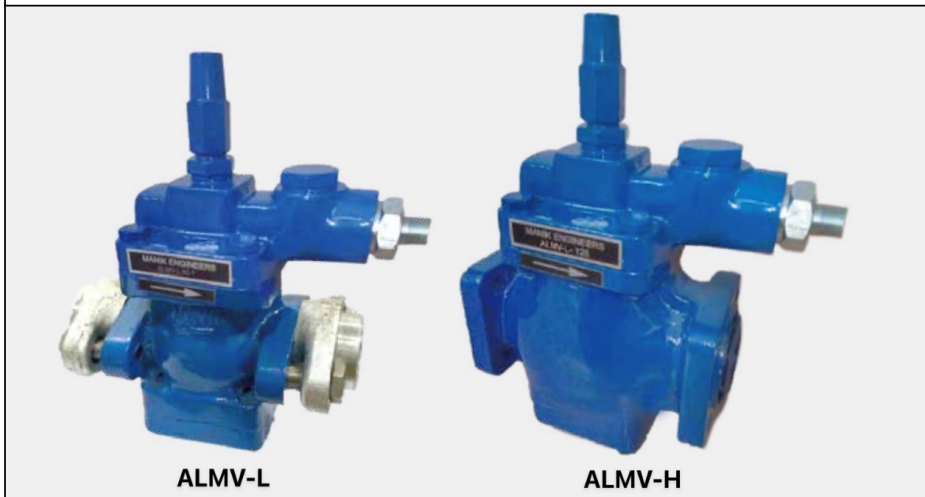


Sr. No.	Position 1 & 2 – Fixed	Position 3 – Options	Position 4 - Options
1.	Stop Valve & Filter Valve	Solenoid Valve	Stop Valve
2.		Pressure Regulator	Expansion Valve
3.		Pressure Regulator with Electric Shut-OFF	Regulating Valve
4.		Dual Pressure Regulator	Stop Check Valve
5.		Differential Regulator	Check Valve
6.		Reseating Relief Regulator	
7.		Outlet Pressure Regulator	

Modulating level controls



Low Side Float Valve (LSFV) modulates liquid level in the Receiver when used with ALMV type expansion valve.



ALMV-L

ALMV-H

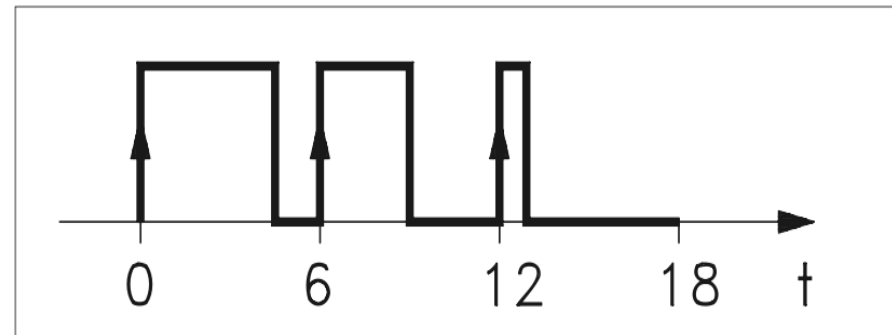
Electronic expansion valve MEEV



MEEV-20

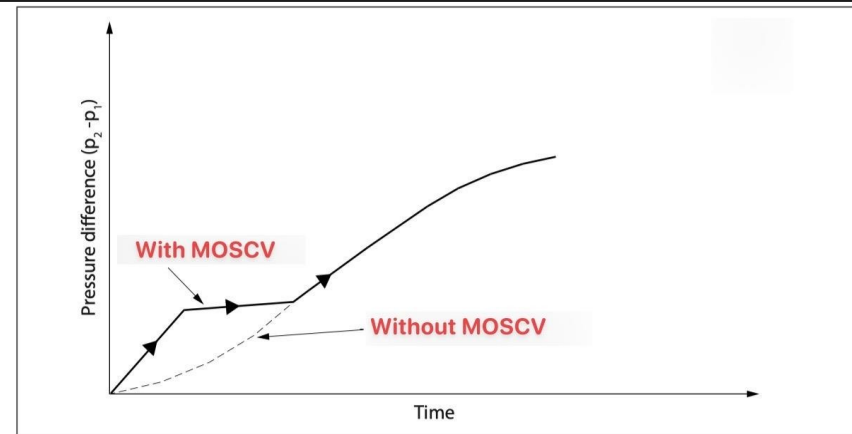
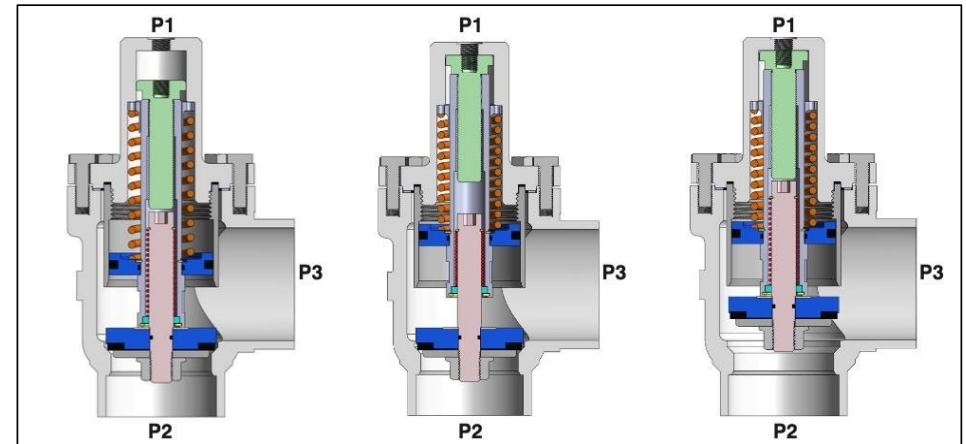
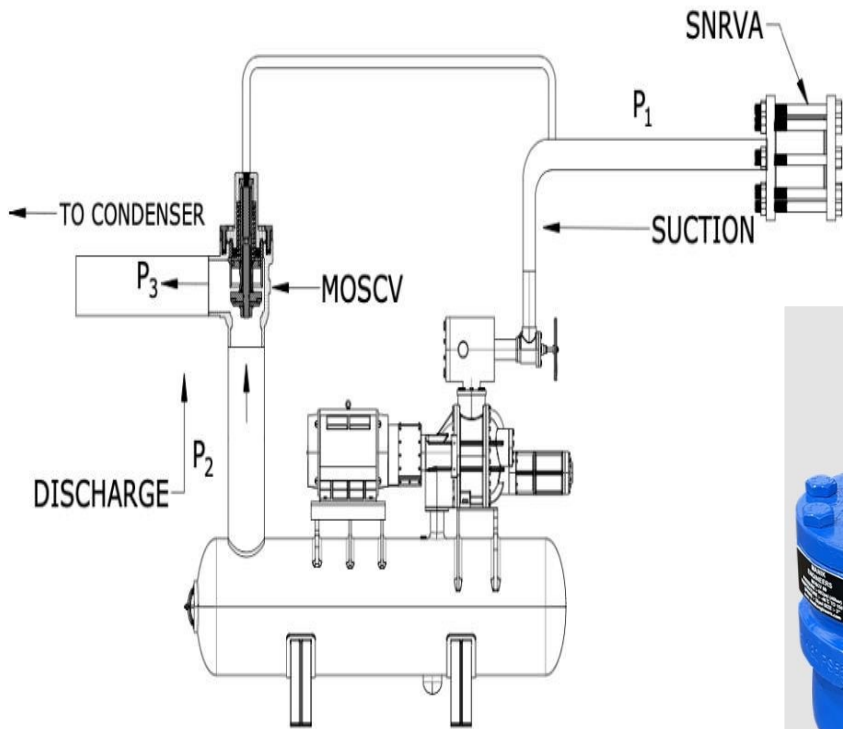
FUNCTION :

The valve capacity is regulated by means of pulse-width modulation. Within a period of six seconds a voltage signal from the controller will be transmitted to and removed from the valve coil. This makes the valve open and close for the flow of refrigerant.



Compressor Oil Pressure Control Valve

MOSCV



Differential Pressure between Discharge and Suction Pressure.

MHP series valves: stop valves, regulating valves, stop-check valves and filters



Steel High Pressure Valves - MHP series

Salient Features

- MHP Steel range 10NB to 300NB.
- Regulating valves range is upto 100 NB
- Stop Check valves / Check valves range is upto 125NB
- Max. Working Pressure – 55 bar
- Test Pressure 80 bar
- LCC A352 Cast Steel Body
- With updated Superior Graphite packing design.
- Premium quality at competitive prices.
- Available in Butt Weld (DIN & ANSI) and Socket Weld Connections as per International Standards.

MHP-SS Stainless-Steel Series



MHP-SS Stainless-Steel Series

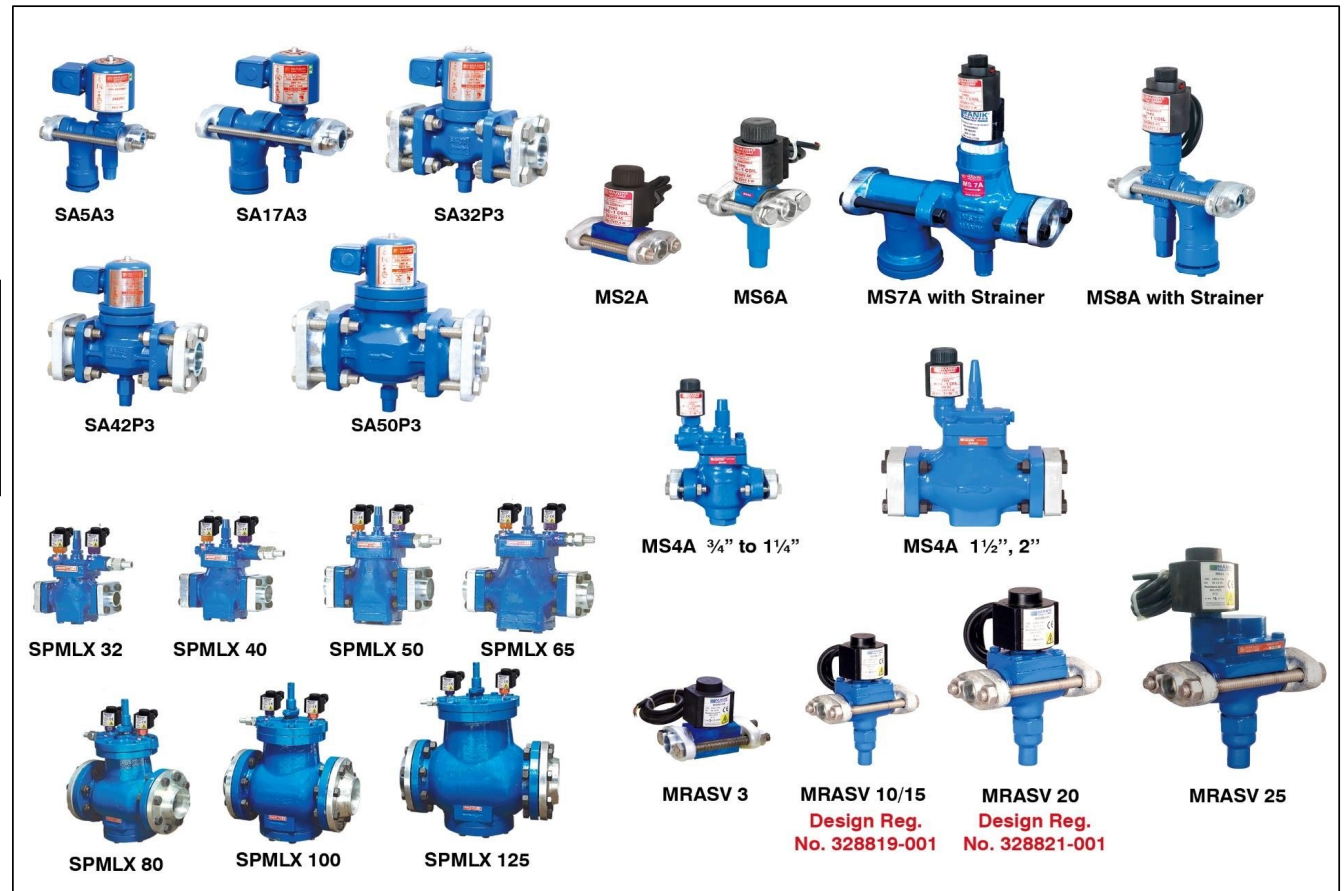
Highlights:

- Maximum Working Pressure: 80Bar.
- Test Pressure: 120Bar
- Wide Range available from DN10 to DN200.
- Vast Temperature Range: -60 to +150°C / -76 to 302°F
- Special Low Temperature Cast Steel Grade: CF8. (CF8M also available on request)
- Mirror Finished Stainless Steel Internals for superior quality.
- Special Leakproof Packing Gland Design.
- Available with Back seating for online servicing.
- Cast Stainless Steel Handwheels available for MHP-SS series.
- Available in Butt Weld (DIN & ANSI) and Socket Weld Connections as per International Standards.



Solenoid valves

- SA Series – DN 15 to 50
- MRASV Series – DN3 to 40
- MS Series – DN2 to 50
- MTSV/SPLMX Series – DN 32 to 125



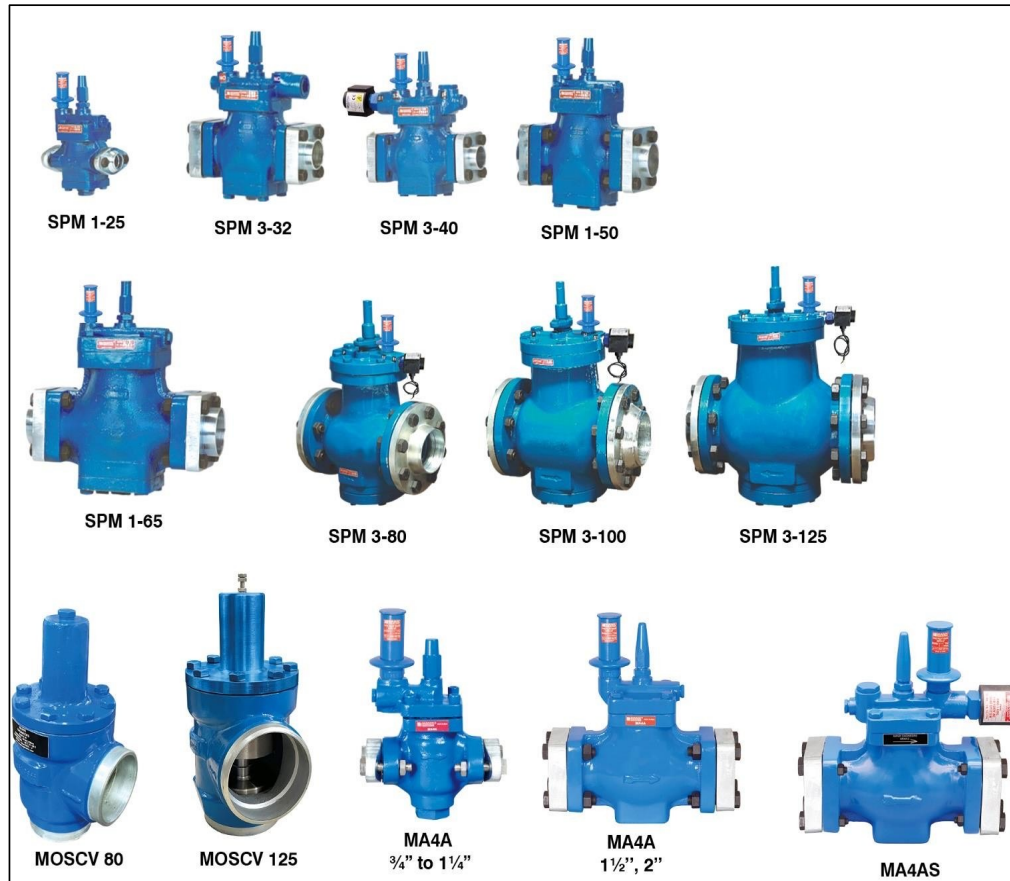
Level Controls

- Liquid Level Controllers Type 39FI & LC101A.
- Liquid Level Switch Type MLS39 & MLS39-HLI
- Glass Level Gauges Type MGLG
- Liquid Level Eye Type MLE

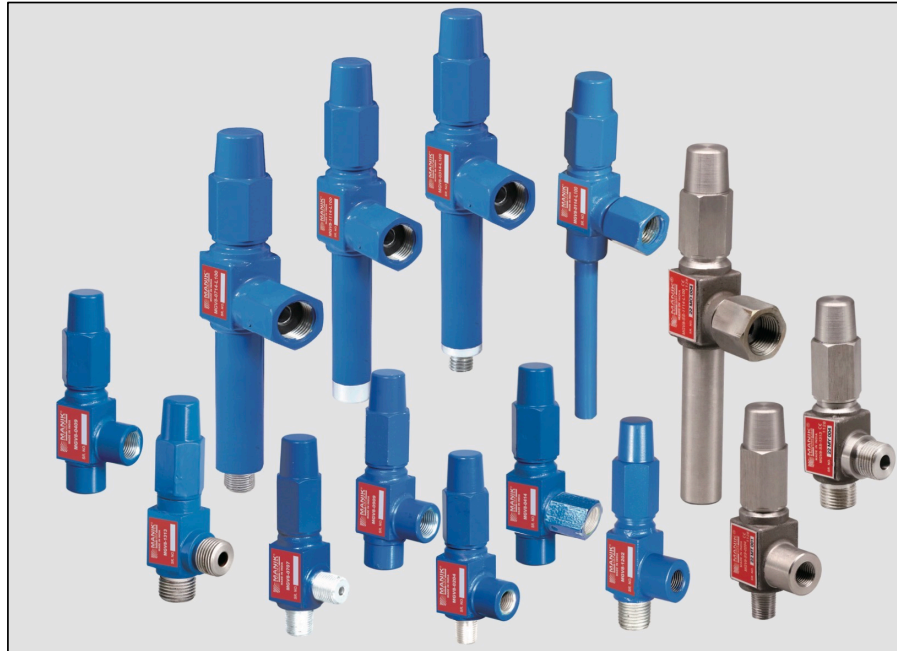


Pressure Regulating Valves and Pilot valves.

- MFR/SPM Series – DN 5 to 125
- MA4A Series – DN20 to 50
- MOSCV – DN 65 to 200
- Pilot Valves



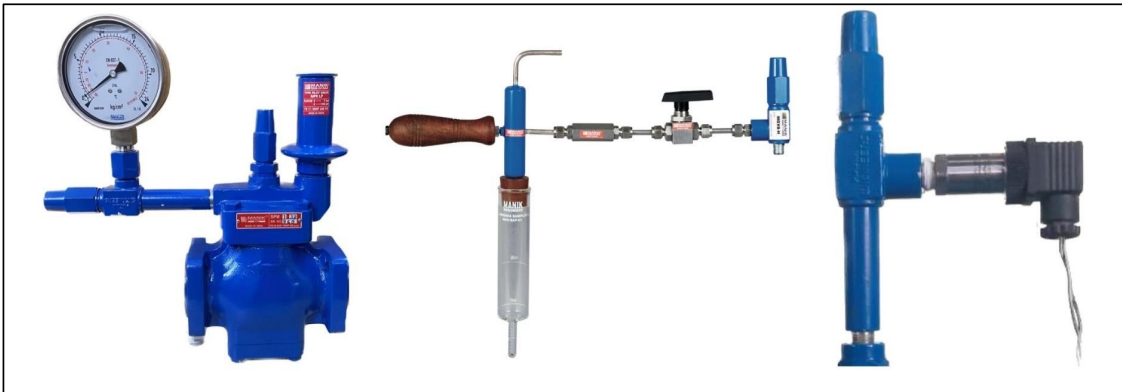
Service Valves – MGV8



- Manik Service Valves are used for Isolation of Pressure/Temperature Gauges, Transmitters on Pressure Vessels and Inline Pipes.
- Available in vast range of inlet/outlet connections.
- Robust design with back seating.
- Also available in weldable type and stainless-steel type that is highly resistant to corrosion.

Service Valves – MGV8

APPLICATION:



ACCESSORIES:



Blind Nut



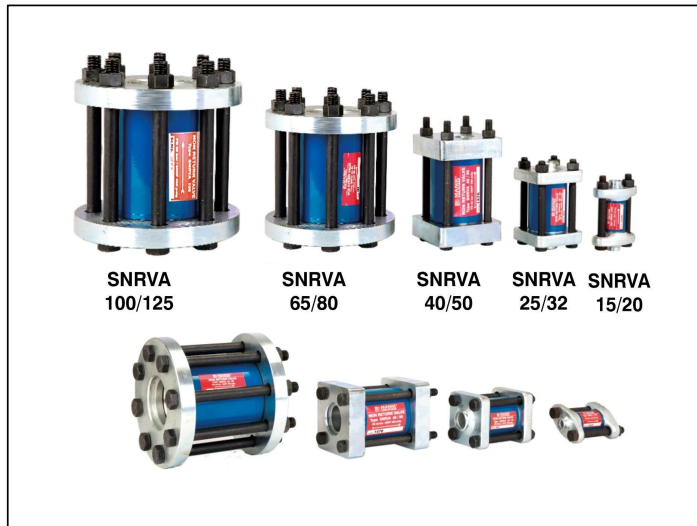
Connection Size Reducer



Weld Adaptor

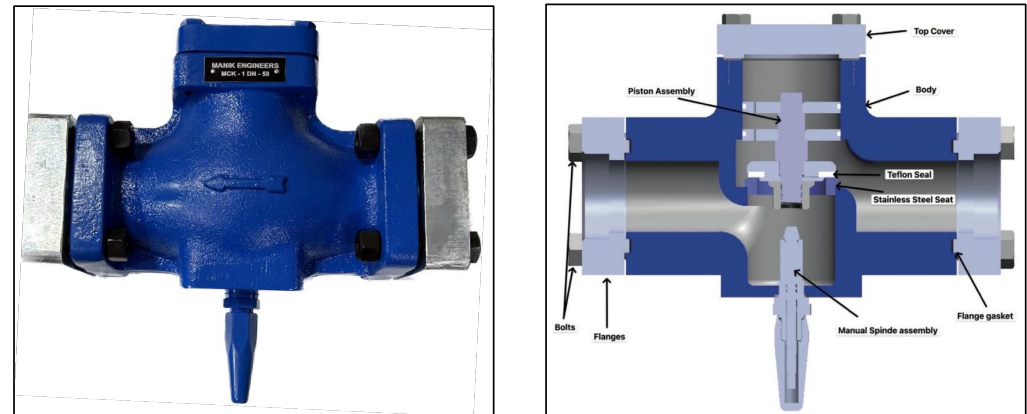
Inline Check Valves

SNRVA Series



- Available in sizes DN15 to 125
- Temperature of media- -50°C to 140°C
- Maximum working pressure - 40 bar
- Teflon Seat and special dampening design for longer life.

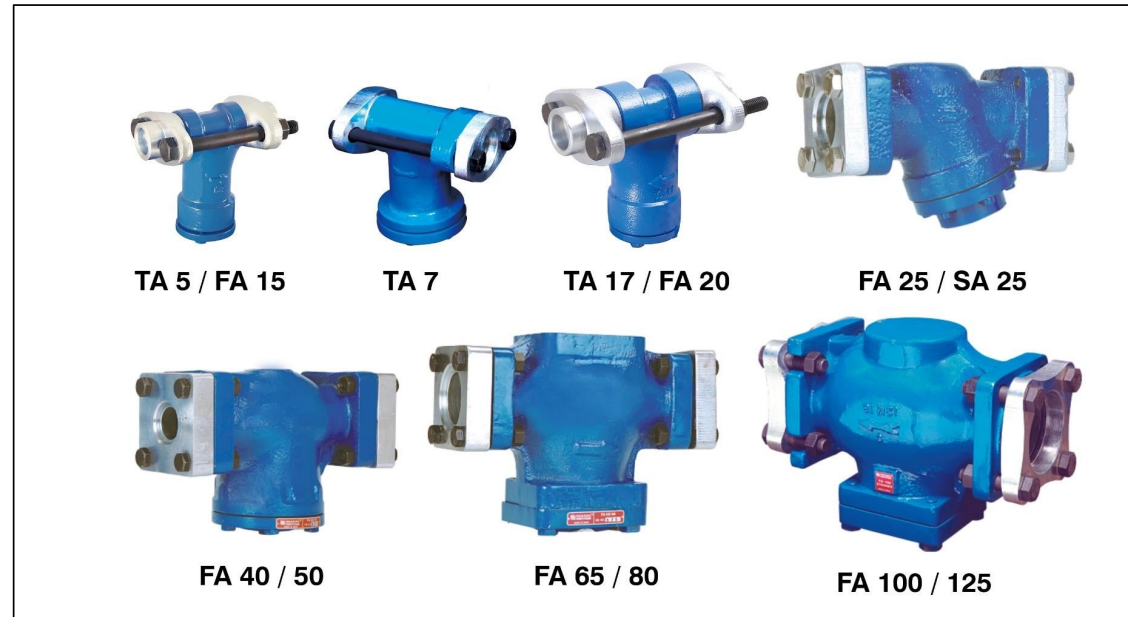
MCK-1 Series



- Available in sizes DN20 to 50.
- Temperature of media- -50°C to 140°C
- Maximum working pressure - 40 bar
- Teflon Seat with Self Closing Piston Assembly
- Manual Bypass facility.

Strainers/Filters

FA/TA Series



- Available in sizes DN15 to 125
- Temperature of media- -50°C to 140°C
- Maximum working pressure - 28 bar
- Filter Insert Stainless Steel weave,
- Mesh sizes - 150, 250 and 500 (microns).

Liquid Level Gauges - MGLG



Reflex Type



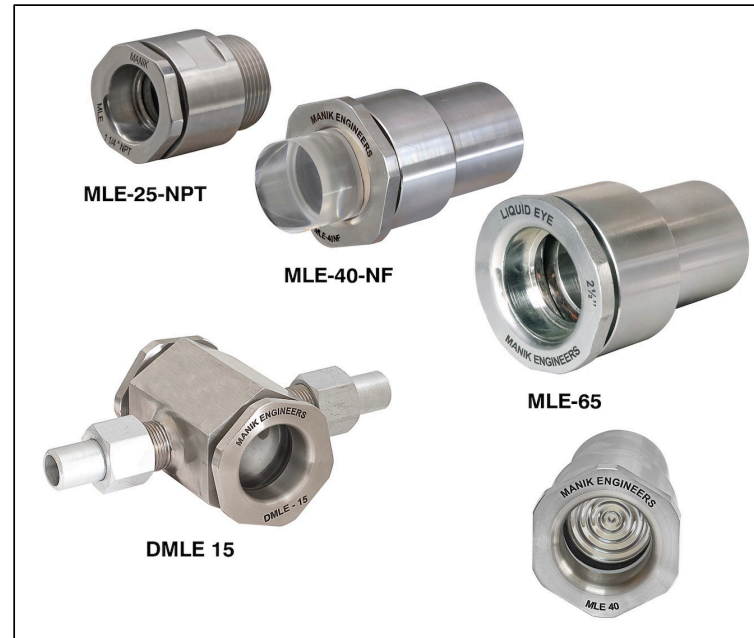
Frost Free Type



Stainless Steel
Version

- Manik Glass Level Gauges are available in Reflex and Non-Frost types.
- SS bolts used to avoid rusting and failure over time.
- Supplied with Isolation Valves.
- Available from 150mm to 2200mm Centre to Centre Distance.
- Imported Silicon Borate Glasses used for premium quality.

Manik Liquid Eye



- Manik Liquid Eye is used to check ammonia level in pressure vessels or for line pipelines.
- Stainless Steel SS316 body.
- Imported Silicon Borate Glass.
- Available in 2 types – Direct Welded and Inline Welded.
- Available for Line sizes from 1/2” to 2 1/2”.

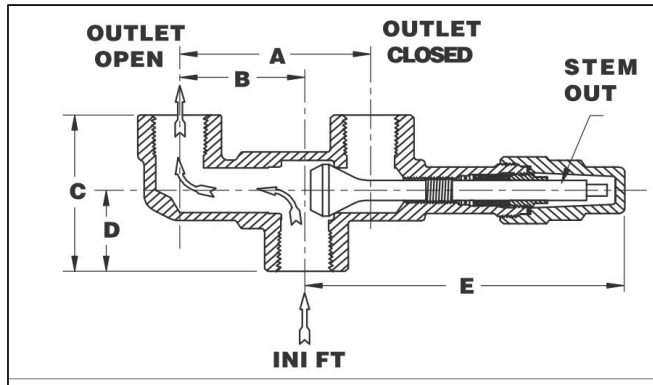
Safety valves, Dual Manifolds and Safety Valve Indicators

MSRV Series



SH Series

**DSV Series
Dual Manifolds**



**SFI
Safety Valve Indicators**



Types of Leak Detection System

Enclosure :

- IP 65 Stand Alone Installations
- Panel Mounting Enclosure
- Panel with External Hooter

Standard Unit Features

- Site adjustable three Level Alarm for each channel Contamination, Second "Early Warning & Alarm
- LED Indication for Each Channel Contamination.
- Warning and Alarm Status
- Single point and multi-point Alarm Units
- Operates on 230VAC, 50Hz,
- In-built Alarm Hooter (60 DB)
- Relay out put for external Hooter and emergency exhaust
- Optional RS485

Additional Features on PLC Unit

- 7" TFT Colour touch screen graphic display
- Set point and relay output for individual channel.
- SMS alert on 5 phone numbers
- LAN/ RS485 Modbusprotocol for PLC/SCADA interface



Types of Sensors: Selecting Sensor

Semiconductor Electrochemical



Sensor Life

The semiconductor sensor will typically last much longer than an electrochemical or a catalytic sensor. Another advantage is that it costs less to replace.

The electrochemical sensor have less life as compared to Semiconductor sensor and sensor replacement cost is high.

Operating temperature

- 25 to 50° C Semiconductor Sensors.
- 50 to 50°C for Electrochemical Sensors with heater.

Response to gases in nearby spectrum

The semiconductor sensor are more susceptible to gases in spectrum near to ammonia like chlorine, sulphur, hydrochloric solutions, sulphur dioxides, ethylene etc.

The electrochemical sensors responds only to ammonia and doesn't react to other gases.

Types of Sensors: Selecting Sensor

Typical Applications

Semiconductor Electrochemical



Semiconductor Sensors

- Ice Plants
- Cold Storages (temperature above -25°C)
- Machine Rooms where possibility other gases in air doesn't exist.

Electrochemical Sensors

- Seafood processing plants
- Dairies
- Meat processing plants
- Chemical
- Dyestuff Pharmaceutical
- Freezing plants
- Cold Storages (temperature below -25°C)
- Paint manufacturing
- Special Sensor for Vent Line installations.



AST-SV

Vent Line
Sensor

Safety Controls



- Handheld Ammonia Leak Detector
- Emergency Pressure Control System
- Dead Man's Valve
- Man Trap Alarm.

Hot-Gas Defrost Controls



- Hot-Gas Defrost Controller
- Hot-Gas Defrost Station –
 - Two-step Gas Powered Solenoid Valve
 - Two-step Hot Gas Solenoid Valve.
 - Flow Regulation Valve
 - Defrost Relief Valve
 - Liquid Drainer

Hot-Gas Defrost Controls



Two-Step Solenoid Valves



Flow Regulating Valve



Defrost Relief Valves



Automatic Liquid Drainer

Energy Saving Products

AUTOMATIC AIR PURGER FOR REFRIGERATION PLANTS

TYPE MSGP-2E
TYPE MSGP-2E-SS



AMMONIA PURIFIER / DEHYDRATOR

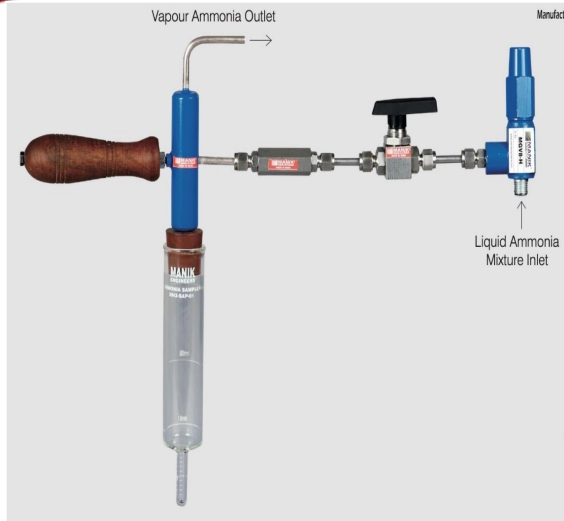
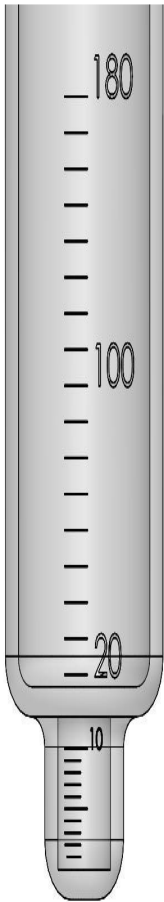
TYPE
WDO-MHP / WDO-MHP-SS



Air Purger and Ammonia Dehydrator



Ammonia Sampler Kit



Energy Saving Products

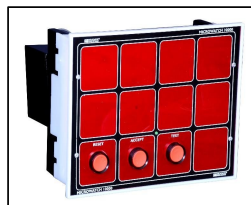


- Desuperheater – Free Water Heater
- Adiabatic Cooling System - ECONET
- Heat Pipe Heat Exchangers-
 - Air To Air
 - Liquid to Liquid
 - Air to Liquid and Vice-a-versa.
 - Suitable for 0 to 600°C.

Flameproof Controls



Compressor Controls



PLC Based Compressor Control Panels



05/07/21		COMPRESSOR CAPACITY CONTROLLER		17:00:35	
PULSE T1 UNLOADING		NEUTRAL ZONE			
9 SEC		±9.99 BAR			
PULSE T2 LOADING		PRESSURE SET POINT			
9 SEC		±9.9 BAR			
PERIOD T		% OF RATED MOTOR			
999 SEC		±99 %			
LOW SUCTION PRESSURE		±9.99 BAR	LOW OIL PRESSURE		±99.9 BAR
HIGH DISCHARGE PRESSURE		±99.9 BAR	DELTA CURRENT		±99.9 %
MOTOR FL CURRENT		±999.9 AMP	CT MAX CURRENT		±999.9 AMP
COMPRESSOR MIN CAPACITY		±99.9			
MAIN		START/STOP		FAULT	
		COMP.RUNNING		MANIK ENGINEERS INDIA	

Electronic Controls

Temperature /%RH /Pressure Indicators and Controllers



Multipoint Scanner Controller with RS485 Modbus,

Web-Based Monitoring Solutions

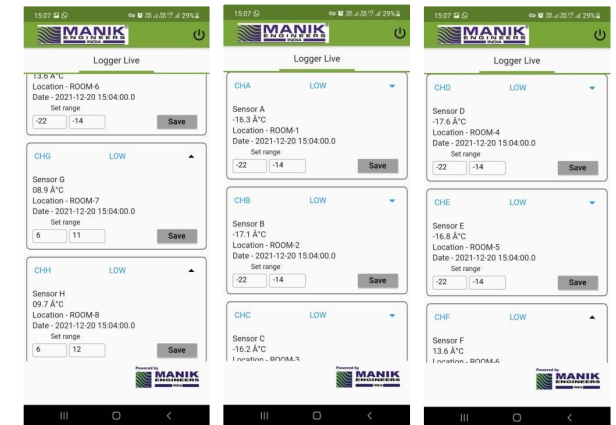
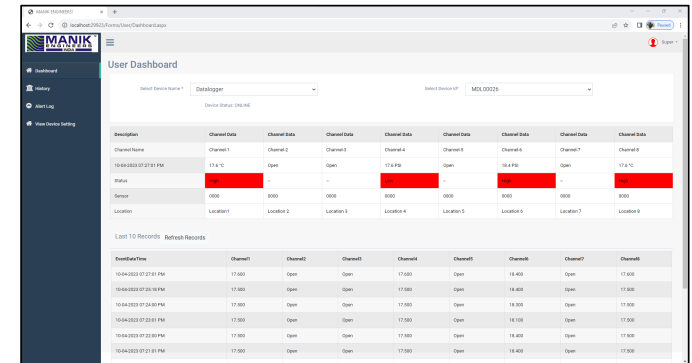
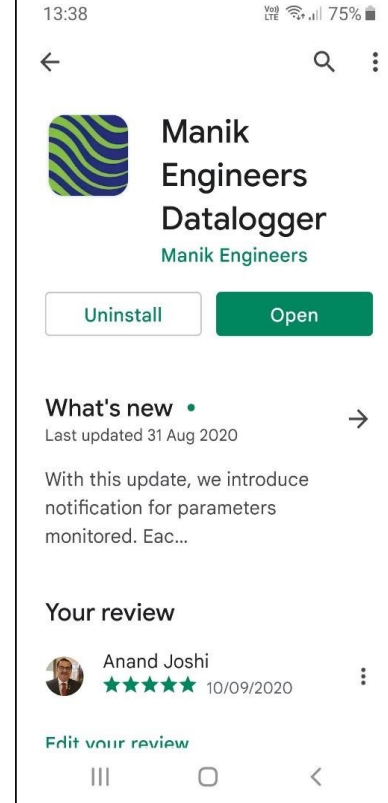
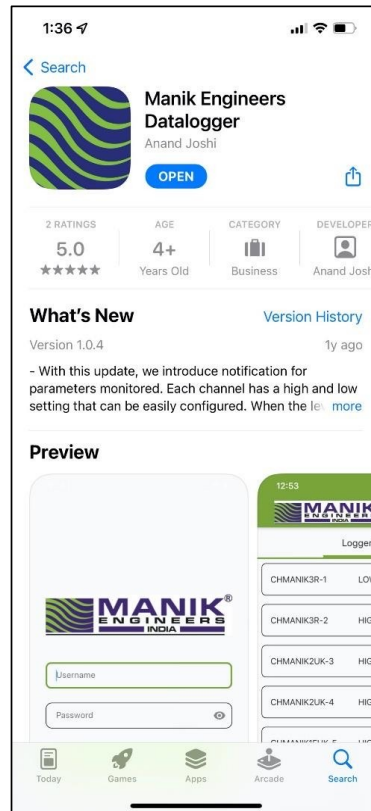
www.manikengineers.com

Username : maniks2

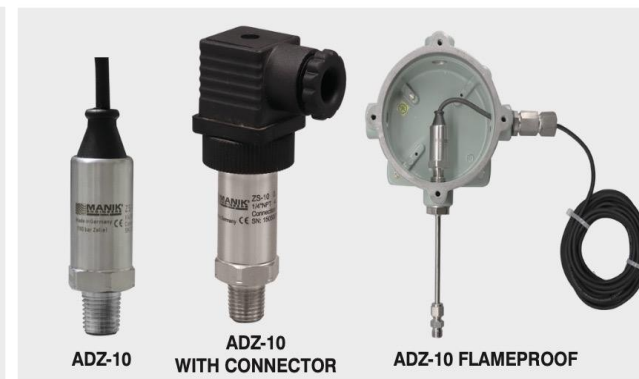
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App store

Play store



Temperature /%RH /Pressure Sensors & Transmitters



Information is private and confidential

Informative Videos via YouTube Channel

Detailed information of our products is available on our website.

www.manikengineers.com

Informative Videos via YouTube Channel

[Manik Engineers YouTube](https://www.youtube.com/channel/UC...)

MANIK ENGINEERS INDIA
Manufacturer of Controls & Control Valves for Industrial Refrigeration

HOME COMPANY PRODUCTS PRESENTATIONS VIDEO DOWNLOAD ARTICLES CONTACT

OUR TOP NEW PRODUCTS

- HIGH PRESSURE STOP CHECK VALVES TYPE: MHPSCV-SS AND MHPCV-SS
- HIGH PRESSURE REGULATING VALVES TYPE: MHPRG-A-SS AND MHPRG-B-SS
- HIGH PRESSURE FILTER VALVE TYPE: MHPFV

about us
WHO WE ARE?

Manik Engineers manufactures controls, control valves for automation of refrigeration plant since 1978, and is truly following the dream of Honorable Prime-Minister Narendra Modi, Make in India. We are "Made in India" since 1978. Our products include Ammonia solenoid valves, Liquid

Anand Joshi
120 subscribers

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Customer Testimonials



Design Registrations



Technical Catalog

Thank You!!



ANAND JOSHI (B.E.I.E.)
Past President AAR (2016-17)
Member ASHRAE (USA)
IGCC, IETE, IDA, RATA, DTA
Past President ISHRAE Pune (2008-09)



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