



SINCE 1976



ENTERPRISES INDIA

PUNE • NAVI MUMBAI



PRODUCT CATALOGUE 2019



INDUSTRIAL
AMMONIA REFRIGERATION
SUPPLY SOLUTIONS

www.ashaenterprises.net

We, Asha Enterprises, with our inception in the year 1976, at Pune, India, have successfully established ourselves as pioneers and a multibrand house in the Refrigeration industry since the past 43 years.

Our organization is engaged in Exports and Supply of superior range of :

- High quality Industrial Refrigeration Valves and Controls – Weld In line & Flange type
- Reciprocating and Screw Compressors, Spare Parts and Accessories
- Allied Industrial Ammonia Refrigeration Equipments and Fittings

Under the able guidance of our Founder Mr. Ramesh L. Bhand, we have carved a niche for ourselves in the competitive market as a Export and Trading House dealing in refrigeration products.

As a client, centric organization, we ensure that ethical business polices and transparency is employed at each and every step of the business. Further to above we are serving more than 300 Industries in Refrigeration Industry for more than 4 decades.

Contact us for all your industrial refrigeration requirements related to -

- MEAT, POULTRY AND SEAFOOD
- LOW TEMPERATURE APPLICATIONS
- BLOCK ICE PLANTS
- COLD STORAGES
- ICE CREAM AND MILK PLANTS
- DISTILLERIES / BREWERIES
- FOOD PROCESSING
- FROZEN FOOD PLANTS
- CHEMICAL AND PHARMACEUTICALS
- TUBE / FLAKE ICE PLANTS
- REFINERIES
- ALLIED AMMONIA APPLICATIONS



Compressors | Valves | Controls | Pumps | Compressor Spare Parts
Allied Industrial Ammonia Refrigeration Equipments and Fittings

Individual Member of :



TYPE SPML

SOLENOID VALVES

SPML valves are servo-operated main valves with screwed-on pilot solenoid valves. SPML valves use an external pressure source for opening (which means that no differential pressure across the SPML valve is required in order to maintain open state). This makes the valve especially suitable for low-pressure suction lines.

The SPML valves can be used in all types of refrigeration systems:

- Direct expansion
- Pump recirculation
- Natural circulation

Within their specified pressure and temperature ranges SPML valves can be used for fluorinated refrigerants (R 22, R 134a,

R 404a, R 12, R 502, etc.) or ammonia (R 717)

SPML pilot-operated solenoid valves can be installed in:

- Suction lines
- Return lines (liquid/vapour)
- Pressure-equalising lines
- Bypass lines

AVAILABLE IN SIZES:

32 mm / 40 mm / 50 mm / 65 mm / 80 mm / 100 mm and 125 mm



TYPE SA SERIES

SOLENOID VALVES FOR AMMONIA



Type SA5 solenoid valve is the direct acting type & type SA 17, SA 32, SA 42, SA 50 are higher capacity pilot operated solenoid valves for refrigeration & air conditioning applications.

SPECIFICATIONS :

- Refrigerants : R717 (NH₃), R22, R134A etc.
- Temperature of medium -40°C to + 80°C
- Single coil (type KC -3) for all SA series valves.

AVAILABLE IN SIZES:

15 mm / 20 mm / 25 mm / 32 mm / 40 mm and 50 mm

TYPE SPMLX

SOLENOID VALVES TYPE SPMLX, TWO-STEP ON/OFF

SPMLX are 2-step servo-controlled main valves with screwed-on pilot solenoid valves. SPMLX valves use an external pressure source for opening (which means that no differential pressure across the SPMLX valve is required).

SPMLX are used in suction lines for the opening against high differential pressure, e.g. after hot gas defrost in large industrial refrigeration systems with ammonia or fluorinated refrigerants.

SPMLX, opens in two steps :

Step one opens to approx. 10% of the capacity, when the pilot solenoid valves are activated.

Step two opens automatically after the pressure differential across the valve reaches approximately 1.5 bar.

AVAILABLE IN SIZES:

32 mm / 40 mm / 50 mm / 65 mm / 80 mm / 100 mm and 125 mm



TYPE SPM 1 AND SPM 3

PRESSURE AND TEMPERATURE REGULATORS TYPE SPM & PILOT VALVES

Main valve type SPM is specially developed to regulate pressure and temperature in refrigeration, freezing and air conditioning plants with fluorinated refrigerants and ammonia. SPM is a pilot operated main valve with screwed-in pilot valves or pilot valves mounted in an external pilot line. Main valves type SPM are used in refrigeration plant with dry evaporation, pump circulation, natural circulation. The regulator is available in two variants, SPM 1 and SPM 3. SPM 1 is designed to accept one pilot valve either screwed-in or mounted in an external pilot line. SPM 3 will accept three screwed-in pilot valves or pilot valves mounted in an external pilot line. Thus several functions can be performed by the same valve.

AVAILABLE IN SIZES:

25 mm / 32 mm / 40 mm / 50 mm / 65 mm / 80 mm / 100 mm and 125 mm



Max working pressure : 754 psi / 52 bar • Operating temp. range : -60°C - 150°C

TYPE MSVA

STOP VALVES



MSVA Stop Valves are accessible with Standard neck (MSVA-S) in angleway and straightway variants. The stop valves are specially designed to meet all modern refrigeration application necessities and favourable flow characteristics. These valves are very easy to disassemble and repair when required.

The valve cone is intended to ensure perfect sealing and withstand a high pulsation and vibration, which can be present particularly in the discharge line.

The MSVA is furnished with internal backseating support/enabling the shaft seal (packing gland) to be replaced while the valve is still under working condition.

Highlights

- Applicable to R717(Ammonia), R744(CO2), HCFC and HFC.
- Also utilized in chemical and petrochemical applications.
- Each valve type is clearly mentioned with type, size and operating range.
- Quick and simple valve maintenance. It requires less effort to replace the top assembly and no welding is required.
- Modular Concept:
- Each valve body is available with a number of different sizes and connection types.
- Possible to transform/convert MSVA-S into any other product of MSVL family (stop/check valves, regulating valve and strainer) by replacing the entire top part.
- Optional accessories:
- For frequent operation heavy duty hand wheel can be supplied.
- For infrequent operation seal Cap can be supplied.
- Available in angleway and straightway forms with Standard neck.
- The valves and seal caps are prepared for sealing, to avoid operation by unauthorised person, utilizing a seal wire.
- Internal back seating:
 - Internal metal backseating: -DN 15 - 65 (½ - 2½ in.).
 - Internal TEFLON backseating: DN 80 - 200 (3-8 in.).
- Can be used for flow in both directions.
- Valve body and bonnet material is low temperature steel as per PED norms.
- Maximum working pressure: - 754 psi g (52 bar g).
- Operating temperature range: - 60 to +150°C (– 76 to 302°F).

TYPE MSCA / MCHV

STOP CHECK VALVES AND CHECK VALVES



MSCA are check valves with an integral stop valve function and MCHV are check valves only. MSCA/MCHV are available in angle way version.

The valves are intended to operate at low differential pressure, permit favourable flow conditions and are quite easy to dismantle for examination and maintenance.

Optimum opening characteristics are achieved due to laser cut V ports. (MSCA/MCHV 50-125)

The valve cone has a built-in flexibility to ensure tight and perfect closing with valve seat.

The MSCA is furnished with vented seal cap and has internal backseating support/enabling the shaft seal (packing gland) to be replaced while the valve is still under working condition.

A well-balanced damping effect between the piston and cylinder gives an optimal protection during low loads and pulsation.

Highlights

- Applicable to R717(Ammonia), R744(CO₂), HCFC and HFC.
- Also utilized in chemical and petrochemical applications.
- Quick and simple valve maintenance. It requires less effort to replace the top part and no welding is required.
- Designed to operate at very low differential pressure of 0.58 psi g(0.04bar).
- Modular Concept:
- Each valve body is available with a number of different sizes and connection types.
- Possible to transform/convert MSCA-S and MCHV into any other product of MSVL family (stop valve, regulating valve and strainer) by replacing the entire top part.
- Each valve type is clearly mentioned with type, size and operating range.
- Designed with an integrated damping chamber preventing valve flutter in case of low refrigerant velocity and/or low density.
- Quite easy to disassemble for inspection and maintenance.
- Damping facility provide protection against pulsation.
- Internal backseating enables the replacement of the packing gland (spindle seal) while MSCA valve is in working condition.
- Optimal flow characteristics ensure quick opening to the fully open condition.
- Valve body and bonnet material is low temperature steel as per PED norms.
- Maximum working pressure: - 754 psi g (52 bar g).
- Operating temperature range: - 60 to +150°C (– 76 to 302°F).

TYPE MFIA

FILTER



MFIA filters are available in both angleway and straightway versions. In line filters are designed to provide favorable flow conditions. The design features make filter easy to install, and provide quick inspection, cleaning and maintenance.

MFIA filters are used ahead of compressor, automatic controls, pumps etc., for initial plant start-up and where perpetual filtration of the refrigerant is required. The filter optimizes the risk of unwanted breakdowns and reduces wear and tear of plant components due to foreign material.

MFIA filters are furnished with a screen mesh of stainless steel, available in 100 μ (microns*), 150 μ , 250 μ and 500 μ , (US 150, 100, 72, 38 mesh*).

Highlights

- Applicable to R717 (Ammonia), R744 (CO₂), HCFC and HFC.
- Also utilized in chemical and petrochemical applications.
- Quick and simple filter maintenance. It requires less effort to replace the top part and no welding is required.
- Filter mesh of stainless steel mounted direct without additional gaskets provides easy and quick servicing.
- Modular Concept:
- Each valve body is available with a number of different sizes and connection types.
- Possible to transform/convert MFIA filters into any other product of MSVL family (stop/check valves, regulating valve and stop valve) by replacing the entire top part.
- Filter inserts available in two types
- A pleated insert (DN 15- 125) with extra-large surface, which provides low pressure drop and long intervals between cleaning.
- A plain insert of stainless steel.
- MFIA 15-40 (1/2 – 1 1/2 in)
- A special insert of 50 μ can be used with the combination of standard version when cleaning a plant at the time of initial plant start-up.
- MFIA 50-150 (2 – 6 in).
- 50 μ capacity filter bag can be used for plant cleaning during initial installation.
- Each MFIA filter is clearly mentioned with type, size and operating range.
- Valve body and bonnet material is low temperature steel as per PED norms.
- Maximum working pressure: - 754 psi g (52 bar g).
- Operating temperature range: - - 60 to +150°C (- 76 to 302°F).

TYPE MREG

HAND REGULATING VALVES



There are two types of MREG hand regulating valve MREG-A and MREG-B. These are available in both angleway and straightway versions. The valves act as stop valve in closed condition.

The MREG is furnished with vented cap and internal backseating which enables the shaft seal (packing gland) to be replaced while the valve is still under working condition.

MREG valve available in two variants- MREG -A for liquid line and MREG -B for expansion line flow regulation purpose.

The valves are intended to meet the strict quality norms on refrigerating installations specified by the international classification societies and are precisely designed to achieve the favourable flow conditions and line characteristics.

Highlights

- Applicable to R717(Ammonia), R744(CO₂), HCFC and HFC.
- Also utilized in chemical and petrochemical applications.
- Can be used as stop valve in closed position.
- Designed to achieve precise flow regulation.
- Quick and simple valve maintenance. It requires less effort to replace the top part and no welding is required.
- Internal back seating enables the shaft seal (packing gland) to be replaced while the valve is still under working condition.
- Modular Concept:
- Each valve body is available with a number of different sizes and connection types.
- Possible to transform/convert MREG versions into any other product of MSVL family(stop/check valves, stop valve and strainer) by replacing the entire top part.
- Easy to dismantle for inspection and overhaul.
- Each valve type is clearly mentioned with type, size and operating range.
- Valve body and bonnet material is low temperature steel as per PED norms.
- Maximum working pressure: - 754 psi g (52 bar g).
- Operating temperature range: - 60 to +150°C (– 76 to 302°F).



Mr. Rohan R. Bhand

 : +91 98225 55277

- **PUNE OFFICE** : 1188, Sadashiv Peth, Limayewadi, Next to Yogesh Hospital, Off. Tilak Road, Pune - 411030. (MAH) INDIA
• Tel. : 020-24469977, 24469988 • Tele Fax : 020-24469988 • 9823039458
- **NAVI MUMBAI OFFICE** : Shop No. A-12, Mahavir Market, Plot No. 1, Sector-18, Vashi – Turbhe, Navi Mumbai – 400705. • Email: rohan@ashaenterprises.net