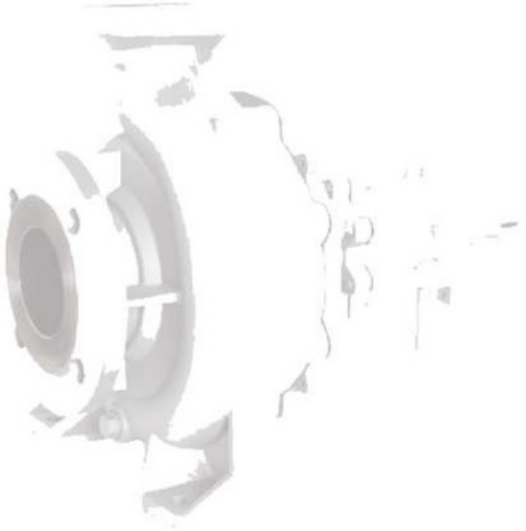
MGR GROUP
Experience . Precision . Excellence

COMPANY PROFILE

2022



ABOUT
MGR GROUP (Pty) Ltd

MGR Group (Pty) Ltd offer specialized equipment and have a wide array of Technical know-how and industry knowledge.

With our internationally recognized product offerings, we supply quality products and services at a competitive price. MGR Group (Pty) Ltd, are the bellow valve, pumps & burners specialist.

We have exclusivity to a range of steam traps and ancillary steam equipment (gland packed and bellow sealed stop valves, expansion bellows, pressure reducing valves and temperature controls).

Through partnership with industry to make a contribution to the sustainability and protection of our country's resources. We aim to achieve this by offering our customers the following:

- Basic schematics of steam and condensate reticulation, including before and after recommendations.
- Finding recommendations based on optimization, safety and cost saving opportunities.
- Steam Trap Surveys conducted with ultrasonic temperature Compensated equipment.
- Product Supply Steam traps and ancillary equipment, steam meters, control valves.
- Commissioning.
- Equipment Services Reconditioning of Steam traps,
- Pressure reducing valves, condensate return pumps (mechanical) and safety valves.

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OUR PRODUCTS

BELLOWS SEALED GLOBE VALVE

APPLICATIONS

- Steam systems
- Thermal oil systems

FEATURES

- High tightness (leak-proofness class - A acc. EN -12266 - 1)
- Compact settlement
- Environment-friendly
- Test acc.EN-12266-1
- Flanges drilled according to EN-1092-1&2
- Face-to-face dimension according to EN 588-1

MORE FUNCTION OPTIONS

- Conical disc
- Gear operator
- Flat disc
- Pneumatic actuator
- Soft disc
- Electric actuator
- Stop-check disc
- Position indicator
- Balance type disc
- Limit switches
- Impact wheel operator
- JIS connections
- ANSI connections
- Window shape disc
- BW ends

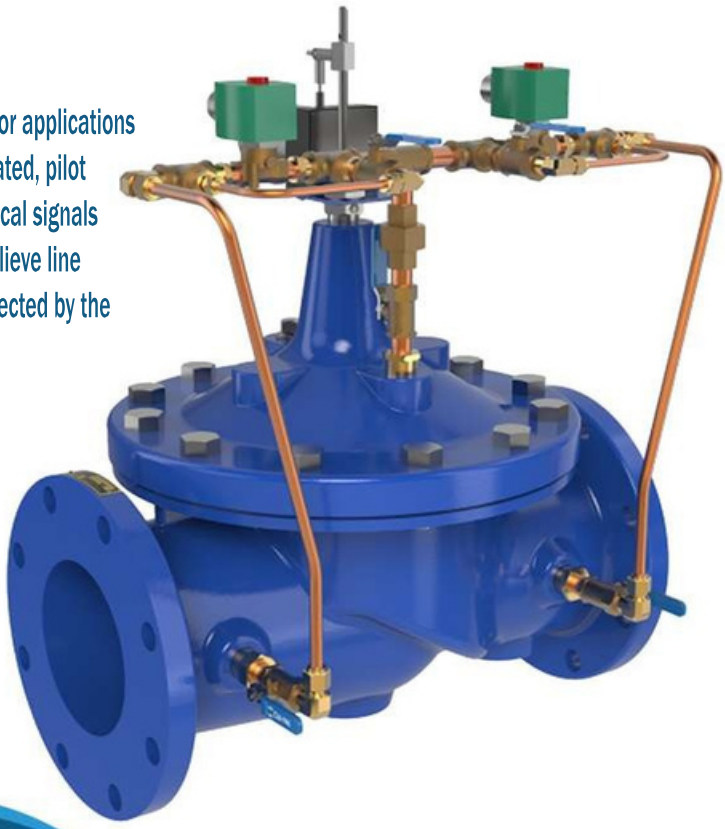
HYDRAULIC/ELECTRONIC PRESSURE CONTROL VALVES

90-01 & 690-01
PRESSURE REDUCING VALVE

Cla-Val Models 90-01 and 690-01 Pressure Reducing Valves automatically reduce higher inlet pressure to a steady lower downstream pressure, regardless of changing flow rate and/or varying inlet pressure. Each valve is an accurate, pilot-operated regulator capable of holding downstream pressure to a pre-determined limit. When downstream pressure exceeds the pressure setting of the control pilot, the main valve and pilot valve close drip-tight.

Model 90-01 is the full port version, while Model 690-01 is the reduced port version of Cla-Val's iconic Pressure Reducing Valve.

90-01 & 690-01
PRESSURE REDUCING VALVE



Cla-Val Series 131 and 631 Electronic Control Valves are designed specifically for applications where remote control of valve function is preferred. They are hydraulically operated, pilot controlled, diaphragm valves. The solenoid pilot controls are actuated by electrical signals from the VC-22D Electronic Valve Controller. The solenoid pilots either add or relieve line pressure from the cover chamber of the valve, causing it to open or close as directed by the electronic controller.

Use this valve for applications where water containing unacceptable levels of chemicals is blended with clean water to achieve compliance with State and Federal regulatory requirements.

GLAND PACKING GLOBE VALVE

APPLICATIONS

- Steam systems
- Thermal oil systems

FEATURES

- High tightness (leak-proofness class - A acc. EN -12266 - 1)
- Compact settlement
- Environment-friendly
- Test acc.EN-12266-1

MORE FUNCTION OPTIONS

- Conical disc
- Gear operator
- Flat disc
- Pneumatic actuator
- Soft disc
- Electric actuator
- Stop-check disc
- Balance type disc
- JIS connections
- ANSI connections
- Window shape disc
- BW ends

Correspond to the pressure equipment 2014/68/eu.

MAIN VALVES

100-01H
HYTROL MAIN VALVE WITH X43H STRAINER

The Cla-Val Model 100-01H consists of the standard Cla-Val 100-01 Hytrol Valve and the Cla-Val X43 H-Style Strainer. This flanged end, globe or angle pattern valves is available in sizes 1-1/2" through 24." Its large flow area design, configured with the mesh perpendicular to flow, produces low-pressure drop while effectively protecting piping and equipment from pipeline debris.

HYDRAULIC/ELECTRONIC FLOW CONTROL VALVES

40-01 & 640-01
RATE OF FLOW CONTROL VALVE

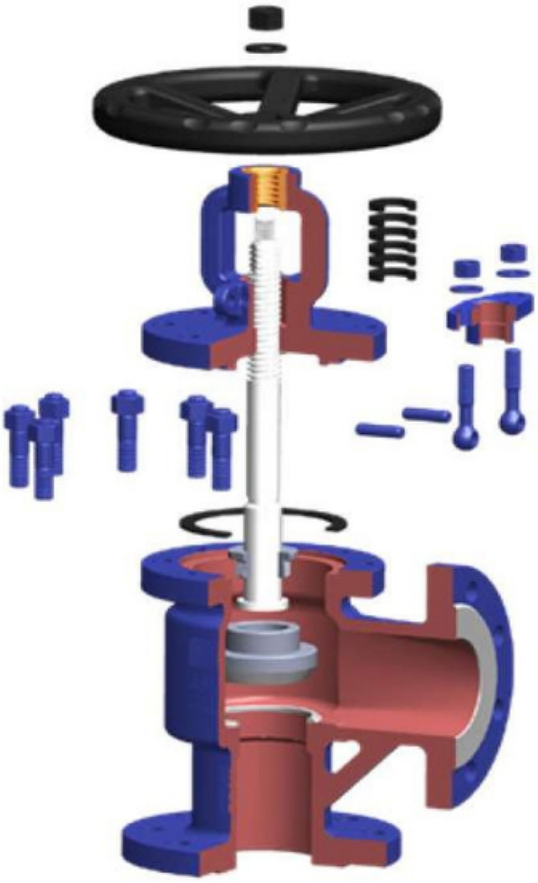
Cla-Val 40-01 and 640-01 Rate of Flow Control Valves prevent excessive flow by limiting flow to a preselected maximum rate, regardless of changing line pressure. They are hydraulically operated, pilot controlled, diaphragm valves. The pilot control responds to the differential pressure produced across an orifice plate installed downstream of the valve. Accurate control is assured as very small changes in the controlling differential pressure produce immediate corrective action of the main valve. Flow rate adjustments are made by turning an adjusting screw on the pilot control.

131-01 & 633-01
METERING VALVE

Cla-Val Models 133-01 and 633-01 Metering and Flow Rate Control Valves are completely self- contained and utilize the VC-22D Electronic Valve Controller to accurately meter and/or control flow rate when used on valves with pressure differentials of less than 100 psid.

Typical applications for 133-01 and 633-01 Metering and Flow Rate Control Valves are in fluid delivery systems where the flow rate is measured and changed from a remote location such as a SCADA system, using the VC-22D Electronic Valve Controller as the interface.

SCREW DOWN NON-RETURN ANGLE TYPE GLOBE VALVE



APPLICATIONS

- Steam systems
- Thermal oil systems
- Hot and cold water

FEATURES

- High tightness (leak-proofness class - A acc. EN -12266 - 1)
- Compact settlement
- Environment-friendly
- Test acc.EN-12266-1
- Flanges drilled according to EN-1092-1
- Face-to-face dimension according to EN 588-1

MORE FUNCTION OPTIONS

- Conical disc
- Gear operator
- Flat disc
- Pneumatic actuator
- Soft disc
- Electric actuator
- Stop-check disc
- Balance type disc
- ANSI connections
- Window shape disc
- BW ends

Correspond to the pressure equipment 2014/68/eu annes

HYDRAULIC/ELECTRONIC ALTITUDE & LEVEL CONTROL VALVES

131-01 & 631-01 ELECTRONIC CONTROL VALVE

Cla-Val Series 131 and 631 Electronic Control Valves are designed specifically for applications where remote control of valve function is preferred. They are hydraulically operated, pilot controlled, diaphragm valves. The solenoid pilot controls are actuated by electrical signals from the VC-22D Electronic Valve Controller. The solenoid pilots either add or relieve line pressure from the cover chamber of the valve, causing it to open or close as directed by the electronic controller.

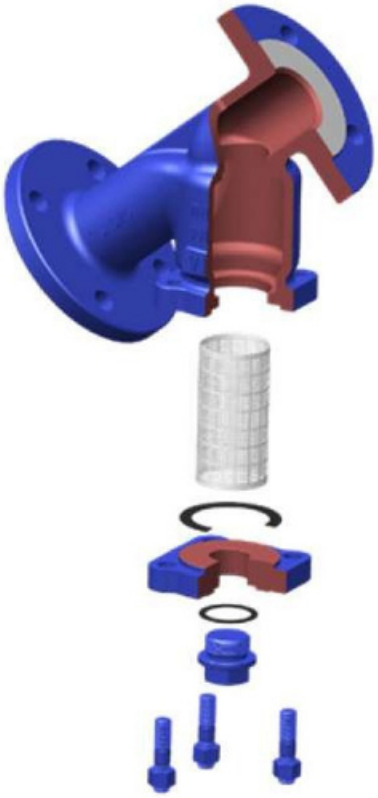
Use this valve for applications where water containing unacceptable levels of chemicals is blended with clean water to achieve compliance with State and Federal regulatory requirements.

124-01 & 624-01 FLOAT VALVE

Cla-Val 124-01 and 624-01 Float Valves are non-modulating valves that accurately control the liquid level in tanks. These valves are designed to open fully when the liquid level reaches a pre-set low point and close drip-tight when the level reaches a pre-set high point.

Level settings can be as much as eleven and one-half feet below the valve. The float mechanism may be located remotely from the main valve.

Y-TYPE STRAINER



APPLICATIONS

- Steam systems
- Thermal oil systems

FEATURES

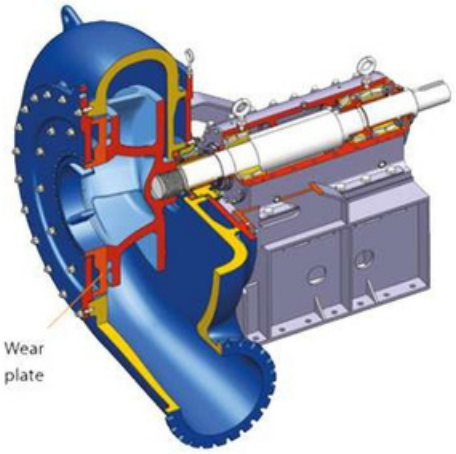
- Compact settlement
- Environment-friendly
- Test acc.EN-12266-1
- Flanges drilled according to EN-1092-1
- Face-to-face dimension according to EN 588-1

MORE FUNCTION OPTIONS

- Optional Emptying
- Optional mesh hole
- ANSI connections diameter
- BW ends
- JIS connections

Correspond to the pressure equipment 2014/68/eu annes

PUMPS WE DO



CENTRIFUGAL PUMPS

The centrifugal pump is built on a simple principle: Liquid is led to the impeller hub and by means of the centrifugal force it is flung towards the periphery of the impellers. The construction is fairly inexpensive, robust and simple and its high speed makes it possible to connect the pump directly to an asynchronous motor. The centrifugal pump provides a steady liquid flow, and it can easily be throttled without causing any damage to the pump.

The inlet of the pump leads the liquid to the centre of the rotating impeller from where it is flung towards the periphery. This construction gives a high efficiency, and is suitable for handling pure liquids. Pumps, which have to handle impure liquids, such as wastewater pumps, are fitted with an impeller that is constructed especially to avoid that objects get stocked inside the pump.
If a pressure difference occurs in the system while the centrifugal pump is not running, liquid can still pass through it due to its open design.

THE CENTRIFUGAL PUMP CAN BE CATEGORISED IN DIFFERENT GROUPS:

- Radial Pumps
- Axial Pumps
- Side Channel Pumps

Radial and axial pumps are the most common types used.

DISPLACEMENT PUMPS

In displacement pumps, the pumped fluid is delivered through solid volumes and can not flow freely through the pump. Displacement pumps provide an approximately constant flow rate at fixed speed, even with changes in backpressure.
The difference in performance depending on which of these pumps you are dealing with, a small change in the pump's counterpressure results in differences in the flow. The flow of a centrifugal pump will change considerably, the flow of a displacement pump will change a little or will hardly change at all.
The pumps are typically designed with the finest tolerances possible to obtain the highest possible efficiency and suction capability. However, in some cases, it is necessary to increase the tolerances, for example when the pumps have to handle highly viscous liquids, liquids containing particles and liquids of high temperature.
Positive displacement pumps are pulsate, meaning that their volume flow within a cycle is not constant. The variation in flow and speed leads to pressure fluctuations due to resistance in the pipe system and in valves.

TYPICAL DISPLACEMENT PUMPS ARE:

- Progressing Cavity Pump
- Multi Screw Pump
- Rotary Lobe Pump
- Dosing Pump
- Hose Pump
- Gear Pump
- Regenerative Turbine Pump
- Vacuum Pump

PROGRESSING CAVITY PUMP

Gentle dosing of solid-loaden media – even at high pressures and viscosities
Progressing cavity pumps belong to the group of rotating positive displacement pumps. They are self-priming, valve-less, and due to their high process liability and suction capacity they are often used for the continuous, gentle conveyance and precise dosing - in proportion to speed - of difficult media.

ASPHALT & BITUMEN PUMPS & PLUG VALVES

MGR Group distributes a full range of different pumps and matching equipment supporting the handing of bitumen products. Including unique features suited for today's needs and new polymer based formulations, we have the solution.

For certain applications, we can offer proven sealing options, available in also a patented zero-leakage pump with a state of the art magnetic coupling. This pump offers a total protection against spillage and vapour, which may create environmental hazards. Electrical heating is an alternative to heating by liquid or steam.

Applications tend to fall into four categories: Production (refining), distribution (terminals), hot mix (paving mixtures), and roofing (filled asphalts). Refineries and terminals often use steel pumps, while hot mix asphalt plants use mainly castiron pumps with heating jacketed, and either packing or mechanical seals. Roofing plants are generally pumping highly abrasive, filled asphalts for shingle manufacturing. These require special hardened parts, slower operating speeds.