

Lewis Mechanical Sales, Inc

525 Clifford St, Corpus Christi, TX 78404
 361-882-2233 Fax: 361-880-7199
 Manufacturers Representative

www.lmshvac.us



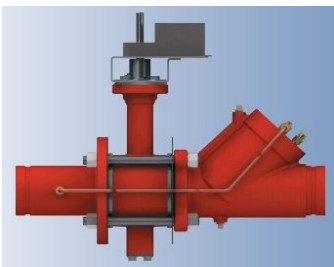
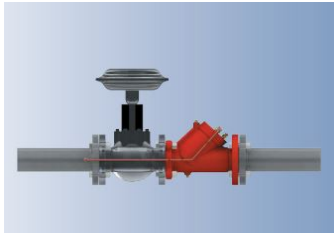
Griswold Controls Discount List



For unlisted items, call us at 361-882-2233

Last updated 1/27/2017

Brand	Name	Description	Disc off List
Griswold	Automatic Flow Limiting Valves	<p>Isolator R, Isolator Y, K Valve, Mini, Combo, Copper Sweat, Threaded Flange, Uni-Flange, Steel Flange, Grooved End, & Wafers-Class 150/300</p> <p>Sizes: 1/2" – 24"</p> <p>The Griswold Controls Automatic Flow Limiting Valve is used in many different applications, mostly in the HVAC industry to maintain balance in a HVAC System. The stainless steel flow limiting cartridge has a spring loaded cup that dynamically absorbs pressure fluctuations resulting from changing system conditions due to varying heating/cooling loads. These fluctuations in pressure, within a given pressure differential control range, do not change the flow through the valve, therefore the flow is controlled to within +/- 5% of the designed flow.</p> <p>Automatic Flow Limiting Valves do not require any additional balancing as do Manual Balancing Valves, therefore they reduce labor costs from not having to balance and rebalance the valves.</p> <p>Isolator R, Isolator Y and K valves are available with a wide range of flows and PSID ranges, and are the perfect choice for tight spaces. The valves offer easily accessible flow control cartridges, accessible without breaking piping connections, so exchange of the cartridge for flow changes can be made as required. Isolator and K valves are the perfect choice for terminal boxes, VAV boxes, fan coil units, heat pump installations, and base board/in cabinets.</p> <p>Recommended Applications:</p> <ul style="list-style-type: none"> • For Baseboards/In-Cabinets and Terminals: Smaller valves like the Isolator R or Isolator Y, and K Valves. Sizes 1/2" – 3" • For Air Handling Units: Larger Isolator R, Uni-Flange, and Wafers offer precise control for larger applications. Sizes 1-1/2" – 6" • For Chillers, Towers & Pumps: For higher flow applications use Wafers, Steel Flange, Grooved End or Weld End with multiple cartridges. Sizes 3" – 24" 	50%
Griswold	Manual Balance Valves	<p>QuickDisc™ and QuickSet® Manual Balance Valves & Metering Stations</p> <p>Sizes: 1/2" – 20"</p> <p>The QuickDisc and QuickSet are manual balance valves that include brass venturi inserts for flow measurement and graduated memory stops for flow setting. Valves are available with multiple end connection options including a union end connections. The QuickDisc valve uses a ceramic disc to control the flow and the QuickSet valves uses a ball to control the flow.</p> <p>The 2-1/2" to 20" QuickSet and Metering Stations are equipped with a Quadrant Peizo Ring with four sensing ports for more accurate throat signal. No straight runs are necessary for normal operation. With the addition of a butterfly valve for shut off, the 2-1/2" to 20" Metering Station becomes a full functioning QuickSet Manual Balance Valve with memory stop for full accurate flow adjustment. Valves with accessory ports for additional accessories also available.</p> <p>Recommended Applications:</p> <ul style="list-style-type: none"> • Where a simple solution is needed for proportional or static balanced system with constant speed pumping. • Where flow balancing, flow metering, and shut-off are desirable in one valve. • Where optimum system flow balance is required using minimum horsepower 	50%
Griswold	2 Way & 3 Way Actuated Ball Valves	<p>Unimizer® 2 & 3 Way Actuated Ball Valves</p> <p>Sizes 1/2" - 6"</p> <p>ACCURACY The Unimizer® eliminates inaccuracy in ball valves. This is made possible with the technology of the Griswold parabolic flow OPTIMIZER®, a device inserted into the ball to achieve Equal Percentage Control Characteristics.</p> <p>Lower Cv Ratings Why choose a ball valve over a globe valve? With the Unimizer® you can achieve the low Cv ratings of a globe valve at the low price of a ball valve. You can get the added benefit of higher close off pressure.</p> <p>COMPATIBILITY The Unimizer® is available in Female or Sweat threaded end connections. The Unimizer® sets the standard for compatibility, and Griswold's Universal Solution offers the widest range of actuator choices in the industry.</p> <p>Griswold Controls' Patent Pending 3 Way Ball Many manufacturers settle for providing non-equal percentage control to the coil, or they achieve equal percentage control by using a costly, custom programmed actuator. Griswold Controls'</p>	50%

Brand	Name	Description	Disc off List
Griswold	2 Way & 3 Way Actuated Ball Valves Cont.	<p>Unimizer® achieve true equal percentage flow from the parabolic shape of the Optimizers® located at each port, thereby allowing the use of any standard, low cost actuator.</p> <p>Recommended Applications:</p> <ul style="list-style-type: none"> • Where actuated ball valves or globe valves are used to control the flow • Where mixing and diverting capabilities are required • For schools air handling units, and equipment rooms 	50%
Griswold	Pressure Independent Valves	<p>PIC-V, MVP®, PIM Valves, and Pinnacle</p> <p>Sizes: 1/2" – 6"</p> <p>Griswold Controls' PIC-V®, MVP®, Pinnacle and PIM valves are Pressure Independent Control Valves. Pressure independent (PI) valves can help reduce energy costs and increase occupant comfort. PI control valves are designed to replace the conventional 2 way control valve and balancing valve pair, installed at heating and cooling coils in buildings. To obtain the most efficient and optimal results in a system, only the necessary amount, no more and no less, of chilled or heated water must be delivered to the heating and cooling coils at all times. Traditional control valves allow for over flow and under flow to coils which means excess water is pumped to compensate for their inaccuracy. The actuators in traditional valves also have to cycle more often to compensate for pressure changes in the system that impact the flow. By precisely controlling the flow of water to each coil, the valve enables energy savings, increases available plant capacity, minimizes capital expenses necessary to acquire additional capacity, and simplifies system design and control.</p> <p>Recommended Applications:</p> <ul style="list-style-type: none"> • Where balancing at reduced loads is needed, such as office buildings or schools • Where longer actuator life is required • Where the primary variable flow system needs to be optimized <p>PIC-V® 1/2" - 3" Actuator uses full 90° stroke, eliminating installation error in field. Field repairable. Both actuated stem and cartridge can be changed without removing valve from line. Flow rate can be determined by reading valve position on top of actuator.</p> <ul style="list-style-type: none"> • Simple retrofit—no need to know exact flow requirement • Simple retrofit—no balancing required with pressure independent flow control • Eliminates balancing valves • Provide more cooling from existing chillers as opposed to buying additional or new chillers • Multifunction housing reduces piping and installation time as well as number of components required • P/T test ports standard for checking and testing valve and coil temperature and pressure • Eliminate reverse return piping, oversized main piping, and undersized branch piping hydronic strategies <p>MVP® 2 1/2" - 6" Actuator uses six full 360° rotations assuring flow accuracy. Valve position can be sent back to control system so flow can be automatically calculated. Field repairable. Both actuated stem and cartridge can be changed without removing valve from line. Flow rate can be determined by reading valve position on top of actuator.</p> <ul style="list-style-type: none"> • Simple retrofit—no need to know exact flow requirement • Simple retrofit—no balancing required with pressure independent flow control • Eliminates balancing valves • Provide more cooling from existing chillers as opposed to buying additional or new chillers • Multifunction housing reduces piping and installation time as well as number of components required • P/T test ports standard for checking and testing valve and coil temperature and pressure • Eliminate reverse return piping, oversized main piping, and undersized branch piping hydronic strategies <p>PIM® Module The Griswold Controls universal pressure regulator (PIM®) can be used with many different valves to provide pressure independent performance, from manual valves to actuated valves. The PIM® module can also be used to maintain a constant pressure differential across a branch or anything that needs to be independent of pressure changes.</p> <p>Benefits:</p> <ul style="list-style-type: none"> • Maintain a constant pressure drop across any valve, branch or equipment including products already in service. Can also be combined with other valves from Griswold Controls. • +/-5% accuracy through the entire pressure range • Operates automatically off system pressure, no electronics required • Available in 3", 4" and 6" size with Flanged or Grooved End connections • Adjustable pressure drop range of 2-25 psi <p>PIM-V® Use the PIM® Module with the Griswold Controls Unimizer - Actuated Ball Valve for a true Pressure Independent Valve.</p> <p>Benefits:</p> <ul style="list-style-type: none"> • All the benefits of an actuated PI valve at a fraction of the price • Maintain constant flow regardless of pressure changes in system • Prevent over flow and under flow in system • Improve system delta ΔT and therefore reduce flow required • Extend actuator life 	50%



Brand	Name	Description	Disc off List
Griswold	Pressure Independent Valves Cont. 	<ul style="list-style-type: none"> • Use any 1/4 turn LOW torque actuator • No actuator to program or set up • Control flow up to 165gpm with the 3" valve, 365 gpm with the 4" valve and 505 gpm with the 6" valve <p>PINNACLE Pressure Independent Control Valves</p> <p>The Pinnacle valve is a modern pressure independent control valve (PICV) meeting today's HVAC requirements of reducing the building operational costs without increasing the initial installation costs.</p> <p>100% Valve Authority The Pinnacle is a true pressure independent control valve holding 100% authority at all times. The valve instantaneously self-balances at all points of operation, even when there is variance in pressure differential.</p> <p>The valve includes an innovative self-adjustment feature allowing continuous mechanical selfbalancing in all valve positions. This ensures that each coil controlled by the Pinnacle valve is always supplied with the exact flow required for the specific system condition.</p> <p>As long as the pressure differential across the valve is within the operating range, the Cv of the valve is variable and continuously regulated mechanically to keep the control valve in constant authority.</p> <p>The valve is designed to facilitate large fan coils, smaller air handling units, smaller heat exchangers or equivalent, but it is generally the optimal choice in all applications where efficient distribution of water, with focus on system pressure drop, are required.</p> <p>Features and Benefits</p> <ul style="list-style-type: none"> • Three-in-one combination valve, modulating control valve, dynamic flow limiter and differential pressure control valve in one body • Full-stroke modulation at any design flow • 100% authority for any of the valve's flow setting • Automatic system balancing, the correct flow rate for each circuit is achieved automatically • Dynamic balancing, the correct flow rate is maintained as each valve continuously compensates for pressure fluctuations in the system • Field adjustable: flow rate can be changed on demand to 41 predefined flow rates without removing the valve from the pipe works • Elimination of branch or "partner" balancing valves resulting in fewer total valves used in each project • A compact, one-unit PICV (housing and regulator combined) • Up to 41 different flow curves in one and the same insert • Choice of actuator 0(2)-10V modulating, threepoint floating or two-position: all actuators features position indicator, manual overwrite and feedback signals for BMS monitoring • Pressure/temperature measurement plugs for verifying operating differential pressure or checking ΔT across the coil 	
Griswold	Combination Actuated Ball Valve and Flow Limiting Valve 	<p>Automizer® and Balance Zone Automatic Flow Limiting & Temperature Control</p> <p>Sizes: 1/2" – 2"</p> <p>Multiple Features in One Valve – Most coils have a temperature control valve and a balancing or flow limiting valve. Two valves means two manufacturers and two distributors. Griswold Controls provides a single source for both valves, for less hassles and less headaches. And for an added feature, the Automizer® has an integrated isolation ball valve so it is the entire return side of the coil in one valve.</p> <p>Griswold Controls has combined the equal percentage control of the Optimizer® insert with the precision of the Griswold Stainless Steel Flow Limiting Cartridge in the Automizer valve. The Griswold Controls Flow Cartridge limits flow from exceeding coil's specification, while the Optimizer® creates a smooth, responsive flow curve when the valve is actuated.</p> <p>Automizer® and Balance Zone valves are ideal for schools, office buildings, VAV boxes, fan coil units, heat pump installations, and terminal boxes.</p> <p>Recommended Applications:</p> <ul style="list-style-type: none"> • Where actuated valves and balancing valves are used to control the flow • For VAV boxes, fan coil units and terminal boxes • Where space is tight <p>BALANCE ZONE Combination Flow Limiting and Control Valve</p> <p>Pressure differential psid 1-14, 2-32, or 4-57 Flow rate GPM .33 to 10.0</p> <p>The Balance Zone valve is designed to give the optimal indoor comfort. The valves will provide ON/OFF or modulating temperature control and self balancing flow control for use with fan coil units, in-cabinet baseboard heating or chilled beam systems.</p> <p>The Balance Zone valve combines an electrically actuated control valve in series with an automatic flow limiting cartridge.</p> <p>The Balance Zone valve is designed for use in connection with the valve bodies FlowCon A or AB.</p>	50%

Brand	Name	Description	Disc off List
Griswold	Combination Actuated Ball Valve and Flow Limiting Valve, Cont.	<p>Features and Benefits</p> <ul style="list-style-type: none"> • Automatic balancing, the correct flow rate for each circuit is achieved automatically • Dynamic balancing, the correct flow rate is maintained as each valve compensates for pressure fluctuations in the system • Actuator selection, ON/OFF or modulating, normally closed • Easily accessible cartridge for flow rate adjustment or maintenance. • Pressure/temperature measurement plugs for verifying operating pressure differential range or checking ΔT across the coil (not available on FlowCon A-bodies). • The compact size, while still incorporating our flow limiting cartridge, makes it the perfect zone valve. 	