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Flow design manual balance valve

Manual balancing is laborious, time consuming and requires unnecessary use of resources and if not done often and correctly, can lead to imbalances in the system. This results in contactless use of time, operation and an inefficient system. With automatic balancing valves such as FlowMate KA, the system works efficiently and without the needs required by manual balancing. After installation, automatic balancing valves automatically maintain the given flow rate, saving resources and ensuring efficiency. IMI Flow Design provides Hydronic HVAC automatic and manual balancing valves, pre-assembled coil tubes, automatic and manual hose sets, differential pressure controllers, pipeline components and accessories. IMI Flow Design provides a total hydronic solution to the HVAC industry with one of the widest product lines and technical training programs based on your specific needs. Our world experience base and in-depth knowledge of the application of hydronic systems in HVAC is something you can build on! Area: CT, MA, ME, NH, NY, RI, VT Website: Emerson Swan Does Not Represent This Manufacturer in Your Market Zip Code and Line of Business Require Office Location: Model CBVFollowing Philosophy PRO Hydronic Specialties Design Physics First, our full line of manual venturis balancing are some of the most effective and easy to manually balance devices in the industry. Our designs include features such as proper angle restore and length for low power loss. In addition, we have integrated the appropriate upstream pipe diameters needed for smooth flow and optimal accuracy. Features and benefitsEcably low power loss Flow measurement inherent in design +/- 3% accuracy rate Memory stop included Available in MPT, FPT and SWT portsIncluding (2) 1/4 Pressure/Temperature PortsFactory calculated in. W.C. printed on each label for quick and easy commissioningForged construction for:Narrow tolerancesPredsvoj accuracySmooth, Laminar Flow ApplicationsAir HandlersFan Coil UnitsChilled BeamsCooling TowersWater Source Heat PumpsChillersVAV HW CoilsUnit FansHydronic Heaters Devices will have a 15° return chamber for optimal pressure recovery and minimal minimum sustained pressure drop Venturi tube must be independent of the valve to limit the Venturi tube includes the appropriate pipe diameters for optimal accuracyIld valve will be designed with a memory stop to limit the flow once the cbv model has a accuracy rating:+/- 1% between 10 watts.C. and 70 W.C.+/- 3% between 5 W.C. and 150 W.C.+/- 5% less than 5 W.C. and over 150 W.C.Manual Balancing Valves Product SheetManual Device Comparison Pro Hydronic AdvantageKalibrated Variable OrificeExtremely poor flowEstimation of flowEstimation , is not a real measurementendency for cloggingShod PlateHigh permanent pressure loss Endless range of flow signals per throat betaTruncated VenturiHigh permanent pressuraOsjetljiv on knot pressure AccuracyPRO Hydronic's True VenturiLowest pressure lossOptimized pressure of 15° to reclaim the chamberA range of flow signals per throat betaOportunity to select the appropriate pressure signalTurally longer to allow proper returnSlightly more expensive than other de-contained designs Why Venturi with 1/4 Turn Valve? The effect of the strainer on the low-flow manual balancing valves The illustration below shows that the opening sizes are often very small for low-flow balancing valves. Due to the design, the gap from the globe or disc design is less than 20 mesh strainer openings for low flow purposes. Pro Hydronic Specialties uses a 1/4 rotary valve that provides the optimal opening size for the manual balancing valve in low-flow conditions. This should be a statement just below the advantage/disadvantage chart where it says Why Venturi. How easy is it to limit flow? As easy as 1,2,3! No calculators or speculation required! Specify the differential pressure in Inches W.C. (preprinted on a label, flow rate table, or equation). Attach a differential pressure gauge. Close the valve until the desired differential is reached. Set up a memory stop to limit full opening if you want. FlowSet AccuSetter is a leader in a manual, proportionally balanced HVAC environment that delivers standard setup performance with <3% accuracy, a four-step flow setting, and thousands of dollars in savings on head and horsepower usage over energy-losing circuit setters. Select from the complete line of proportional balancing valves. Model UA 1/2 – 2 manual venturi valve with union option, large gilded ball and PTFE seats. Blowout-proof stem with EPDM O-ring. Common handles: Micro - Body, Standard - B and C bodies; memory stop, vinyl coated adhesion. Dual P/T connections with air venting option or drain valve. Union, threaded or sweat with metal-to-metal and EPDM O-ring. Floor F258 Installation Specifications Model VW / VG / VF 2 – 14 Low Loss Steel Venturi— Model VF Flanged (pictured) – Extended Pressure / Temperature Ports Standard – Nailed 150# Ends Model VG Grooved Ends – Dual Extended Pressure/Temperature Test Ports Model VW Welded Ends – Connections for double pressure/temperature testing – Schedule 40 welding ends Filed F004 Installation specifications Model AG 2 – 16 includes grooved venturi upon entry with lug butterfly valve mounted on the downstream exit end and model GF 150# with grooved adapter with screw caps, delivers loose, to continue on the butterfly valve and downstream slot tube. The FG model is available as an option on all sizes. Extended superseal pressure/temperature connections are standard. Submitted F212 installation specifications Model AF 2 - 16 includes the attached venturi with a lug butterfly valve attached to the downstream side. Extended superseal pressure/temperature connections are standard. F212 installation specifications Model AW 2 – 16 AccuSetter includes bay welding vents with lug lug type butterfly valve 150# welded adverseate mounted on the butterfly valve. Prots pressure access are standard. The unit is displayed with optionally expanded P/T plugs. Submitted F212 installation specifications Model EF 2 – 8 Venturi with butterfly valve and extensions. It includes extended priose-shaped venturi with a lug butterfly valve attached to the downstream. Extended superseal pressure/temperature connections are now standard. Submitted F218 installation specifications Model EG 2 – 8 Venturi with butterfly valve and extensions. Includes extended grooved venturi inlet with butterfly valve lug mounted on the downstream exit end and Model GF slot adapter pinned with a cap screw, supplied loose, for attachment to butterfly valves and downstream pipe slots (FG available). Extended pressure/temperature connections, standard. The submitted F218 Installation Specifications Model ER 2 1/2 –6 Model ER is designed to be pinned directly to tightened ATC valves. The pin to the plug is an er plated apron with one size reduction. The model has a built-in section of fly-in with a diameter of five diameters along with a 150# R.F. feed and a lug butterfly valve attached to the downstream. Extended dual P/T ports and an infinite position handle with a memory stop standard. Apnaci F224 Installation Specifications Model ET / ES 2 1/2 – 4 These AccuSetters have an MPT plug to attach to threaded brass ATC valves. They have an integral dielectric community. The model has a built-in section of five inlets in diameter along with a 150# R.F. feed and a lug butterfly valve attached to the downstream. Ext. P/T connections and handles with infinite position with BS standard. Sent installation specifications F239 Confirm flow using installer application Installer allows you to easily check the flow in different LENO™ valves. Under Quick Tools, select hydronic balancing tool. Then select the valve and the desired dimension and immediately get an answer. right now.

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