

Feature	Benefit	Griswold: Automizer®	Griswold: PIC-V	Belimo: PICCV	Danfoss	Griswold: MVP®	Flow Control Industries: Delta P
Pressure Independent Operation	Prevents overflow or underflow regardless of pressure changes in the system.	No	Yes	Yes	Yes	Yes	Yes
Available Sizes	Wide range of sizes means a single manufacturer for entire job	½"-2"	½"-3"	½" – 2"	½"-1 ¼"	3"-6"	½"-8"
Simple Sizing	Easy to make valve selection.	Two Steps: Flowrate and Cv	One Step: Flowrate	One Step: Flowrate	Two Steps: Flowrate and then actuator (selected based on flowrate)	One Step: Flowrate	One Step: Flowrate
Adjustable High Limit Flowrate (Adjustable Cv)	Retrofit applications or applications where final flow is not known during design phase.	No	No	No	Yes	Yes (or specify setting at factory)	Yes
<b>Flowrate Setting Required in Field</b>	<b>Less contractor error if valve comes preset</b>	<b>No</b>	<b>No</b>	<b>Yes (by setting the actuator to limit its rotation. Each flowrate has a different actuator setting!)</b>	<b>Yes, for all flows except the max flow you must set a dial to select flowrate</b>	<b>Yes</b>	<b>Yes</b>
Highest High Limit Flowrate Available	Allows higher flow valves to be installed on smaller pipe which reduces need for bushings.	½"-1": 10 gpm 1"-1 ½": 29.33 gpm 1 ½"- 2": 76.0 gpm	½"-1": 15 gpm 1"-1 ¼": 35 gpm 1 ½"- 2": 95 gpm	1/2"-3/4": 10 gpm 1"-1-1/4": 26 gpm 1-1/2"-2": 100 gpm	½": 4 gpm ¾": 6.6 gpm 1": 11 gpm 1 ¼": 17.5 gpm	½"-1": 10.8 gpm 1"-1 ½": 37.0 gpm 2-1/2"-3": 155.6 gpm 3"-4": 222 gpm 5"-6": 469 gpm	½": 4 gpm ¾": 14 gpm 1-1/4": 38 gpm 2": 112 gpm 3": 209 gpm 4": 365 gpm 6": 800 gpm
Number of High Limit Flowrates Available	The more selections for flow the closer you can get to design requirement.	½"-1": 23 choices 1"-1 ½": 39 choices 1 ½"- 2": 29 choices	½"-1": 12 choices 1"-1 ¼": 6 choices 1 ½"- 3": 14 choices	1/2"-3/4": 20 choices 1"-1-1/4": 18 choices 1-1/2"-2": 27 choices	One choice per size (Valve can be set from 20% flow to 100% flow by limiting actuator stroke)	60 choices (Set in field)	Manual setting on actuator. Markings at 10° increments.
<b>Flow Accuracy</b>	Engineer can trust flowrate is close to their specified flowrate.	<b>+/-5%</b>	<b>+/-5%</b>	<b>Recently changed to +/-10%</b>	<b>+/-5% (testing shows +/-10%)</b>	<b>+/-5%</b>	<b>+/-5%</b>
<b>Starting PSID to Control Flow</b>	<b>Starting Pressure needs to match the pressure the pump sees or the pumps may be undersized</b>	<b>3.2 PSID</b>	<b>3.0 / 6.0 PSID</b>	<b>5 PSID</b>	<b>3 PSID (when measured at pump actual start point is up to 10 PSID, while valve still shows 3)</b>	<b>5.8 / 8.6 / 11.6 PSID</b>	<b>5 / 10 PSID</b>
<b>On/Off or Modulating Actuator</b>	<b>Flexibility in product offering</b>	<b>Both</b>	<b>Both (To take advantage of reduced load needs to be modulating)</b>	<b>Both (To take advantage of reduced load needs to be modulating)</b>	<b>Both (Modulating is OK for flows up to 55% or 70%, for higher flow only on/off)</b>	<b>Modulating</b>	<b>Modulating</b>
Multiple Actuator Compatibility	Allows for actuator selection from eight different manufacturers to fit specific control requirements	Yes	Yes	No	No	No	No
Manual Override	Valve can be operated in event of a power failure.	Yes	Yes	Yes	Yes	Yes	
Balancing at Reduced Load	Reduced actuator hunting which increases actuator life.	No	Yes	Yes (if modulating actuator is used)	Yes	Yes	Yes
Balancing at Full Load	Prevents Overflow or Underflow regardless of pressure changes in the system.	Yes	Yes	Yes	Yes	Yes	Yes
Patented Low Torque Seals	Allows for low torque actuators which are less expensive	Yes	Yes	No	No	Yes	No
Electronic Valve Position Display	Easy to read electronic valve position that is accurate	No	No	No	No	Yes	No
Electronic Feedback of Valve Position Correlating to Flowrate	Control system knows the valve position and flowrate	No	Yes (modulating actuators)	Yes (modulating actuators)	No	Yes	No
<b>Flowrate Graph Available for Control System</b>	<b>Allows customer to program the flowrate versus actuator position into control system so they can know the flowrate based on actuator feedback. Also allows for flow verification to meet LEEDS requirements.</b>	<b>No</b>	<b>Yes</b>	<b>Yes</b>	<b>No</b>	<b>Yes</b>	<b>No</b>
Stem – Replaceable	Ability to repair valve instead of replacing	Yes	Yes	No	Yes	Yes	No
Cartridge – Replaceable Externally	<b>Ability to repair valve instead of replacing</b>	Yes	Yes	No	N/A	Yes	N/A
Isolation Ball	Replaces isolation valve on branch so additional return side valves are not required. Reduces labor costs.	No	Yes	Yes	No	Yes	No
Airvent	ASHRAE recommends an airvent on every return branch so additional valves are not required	Yes	Yes	No	No	No	No
Multiple PT Test Ports	Coil manufacturers recommend PT ports for measuring temperature or pressure across coil. Also can be used for troubleshooting.	Yes	Yes	No	Optional	Yes	Yes
CPP Components Available	One supplier for all the piping requirements reduces chance of error or incompatibility	Yes	Yes	Yes (new offering)	Yes	Yes	No
Installation Flexibility	Allows for FNPT or sweat applications	FNPT/SWT by Union	FNPT/SWT by FNPT/SWT/Union	FNPT	Union by Union	Flange	FNPT/Flange
History in Balancing	Experience you can trust	50 years	50 years	6 years	6 years	50 years	~20 years
Weight	Additional support is required for heavier valves so light weight valves are less expensive to install.	#	#	#	#	# #	# # # #