

Instructions for Field Adjustment of Flow and Valve Sizing and Selection

Instructions for Non-Spring Actuator Utilizing the FlowSetR™

Non-Spring Return Actuator: LRB24-3

Default set-up:

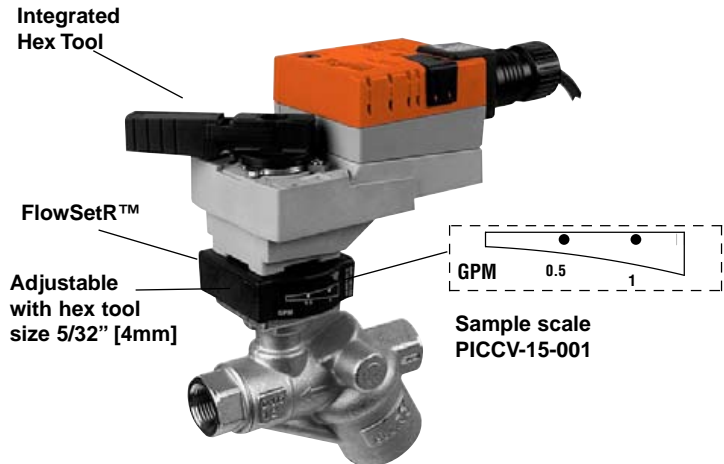
FlowSetR™

The factory setting corresponds to the ordered flow rate (selected from Belimo's standard product range). The valves factory setting is in open position (valve always closes in CW direction).

To set or adjust desired maximum flow (actuator, FlowSetR™ and valve are connected):

1. Fully close the valve via actuator control signal or via manual override (press button and turn handle in clockwise direction).
Note: The FlowSetR™ fixed clockwise end stop purposely prevents the actuator from returning to its full zero-degree position, eliminating excess rotation.
2. Use the integrated hex tool in the actuator lever to turn adjustment screw in plus (+) or minus (-) direction in order to move scale indicator to desired flow rate. A standard hex tool (i.e. Allen wrench) size 5/32" or 4mm can also be used to turn adjustment screw.

PICCV flow can be field adjusted by using a hex tool. Therefore, the maximum flow can be increased or decreased within the valves adjustable flow range.



On Floating Point actuators, the running time is constant but dependent on the overall angle of rotation.

Avoid disconnecting FlowSetR™ from actuator or valve! If necessary, refer to instruction sheet on how to install FlowSetR™ to valve, and actuator to FlowSetR™.

Sizing and Selection of PICCVs

To select the proper flow rate and actuation for your application:

Sizing of the Pressure Independent Characterized Control Valves is based on GPM, and there is no need to calculate Cv rating. Pressure Independent Characterized Control Valves are 2-way valves that operate between a 5-50 PSI operating range.

For example: If an application requires 4 GPM:

Select the valve rated for 4 GPM. In the catalog, this part number is the PICCV-15-004.

For example: If you wish to narrow the flow to 3.5 GPM:

Narrowing the flow to 3.5 GPM can be achieved with the use of the FlowSetR™ if you have the LRB24-3 actuator. With the use of a 5/32" or 4 mm hex tool, the flow can be adjusted in the field. For all other MFT actuators, you may reprogram to 3.5 GPM using the PC software and following the MFT guidelines.

Note: Please note that PICCV bodies have a range of flow. Consult page 51 and 52 for details.

For example, the valve body PICCV-15-001 can maintain flows from 0.50 GPM to 1.0 GPM, and the PICCV-15-005 can maintain flows between 1.5 GPM to 5.5 GPM.

There will be two Pressure/Temperature ports as a standard offering for the 1-1/4" valves and larger, and available as an option for the 1" valves and smaller. The Pressure/Temperature ports will be reflected in the part number as "PT".

i.e. PICCV-15-004-PT + LF24-MFT US.

The remaining step is to select the type of actuation, based on your requirements.

Prior to ordering, please provide whether you wish to have the valve normally open or normally closed, and if spring return actuation is required, please note whether the valve is to spring open or spring closed upon power loss.

For example: If your application for the above valve requires spring return, 2-10 VDC input signal, 100 sec run time and 2-10 VDC feedback signal, select LF24-MFT US and MFT programming code P-10019.