

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).

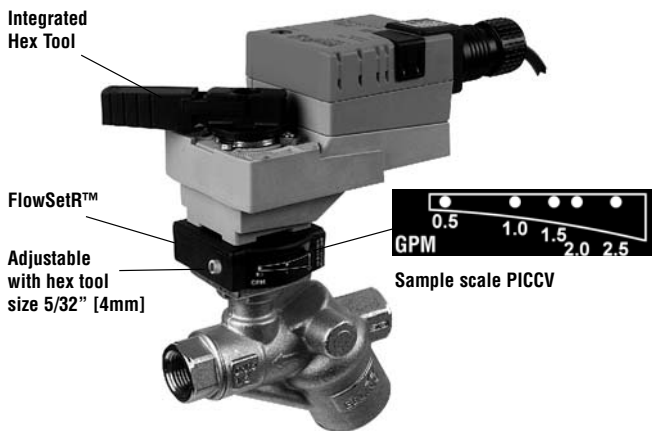
To set or adjust desired maximum flow (actuator, FlowSetR™ and valve are connected):

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™.

Valve Sizing and Selection

PRESSURE INDEPENDENT, ON/OFF, PROPORTIONAL, FLOATING ACTUATOR

REQUIRED INFORMATION

FOR SIZING:

flow in GPM

FOR SELECTION:

2-way valves only
pipe size
media temperature
spring return or non-spring return
required close-off pressure (COP)
voltage requirement
ambient temperature
required accessories

EQUATIONS USED

No equations are required. Choose the PICCV that has the closest GPM to the requirement and round up to next available flow.

PROCEDURE

- 1) Obtain required GPM
- 2) Choose valve model number that has closest GPM rating (round up)
- 3) Verify that valve size is not larger than pipe size and in general, do not select a valve less than 1/2 of the line size
- 4) Select actuator based upon selection parameters above
- 5) Based upon actuator/valve selection, verify close-off pressure (COP) meets project requirements

EXAMPLE OF CV CALCULATION

87 GPM is needed – choose 90 GPM valve PICCV-50-090