The Liquid Cooling Garment (LCG) is a key feature of wic. It provides effective cooling of the user throughout the use of the product. The quick release mechanism built into the body allows for quick and easy attachment or removal of the garment from wic. The built in plumbing which consists of an auxiliary line for the LCG, a pressure reduction valve and overflow relief components, means that any fire fighter wearing an LCG can attach to wic and lower their core body temperature.

The water control adjusts the flow rate and pattern of the water which leaves the nozzle. In order to improve efficiencies wic integrates corresponding nodes which provide the user with feedback on the control positions as well as provide pre adjusted settings that allow the flow rate and pattern select nodes to correspond with each other and allow quick variation between the two most used settings, that is the pulse and jet settings.

Water Control

Steel spring and ball bearing provide feedback on control adjustments

Corresponding nodes on both controls

Modified cam angles to allow both controls to move in synergy