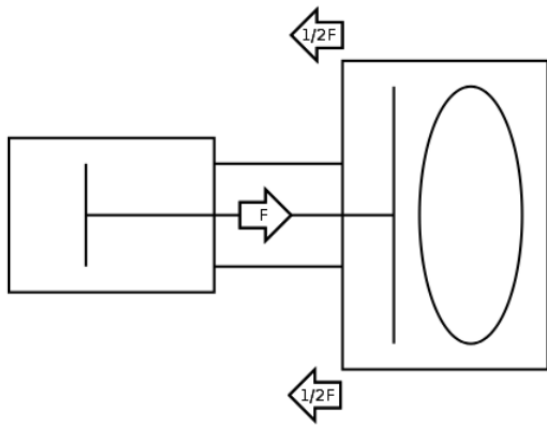
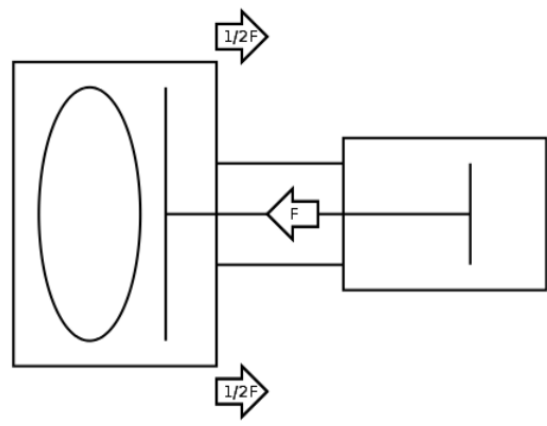


eDART’s Flash Pinch Valve uses two actuators that pinch the sleeve from both sides. The question that comes to mind is, since there are two of them, whether the actuator can be sized smaller than the corresponding actuator for the Standard Pinch Valve. The answer is no. Below is a schematic showing two Standard Pinch Valves. It can be seen that the actuator pushes directly away from itself on one side of the sleeve and pulls the otherside towards itself through the frame (termed the reaction force). When two actuators act together, as in the Flash Pinch Valve, then the reaction force is taken up by the second actuator working against the first. The end result is that the sleeve is closed from both sides and the reaction forces are transmitted through the frame.

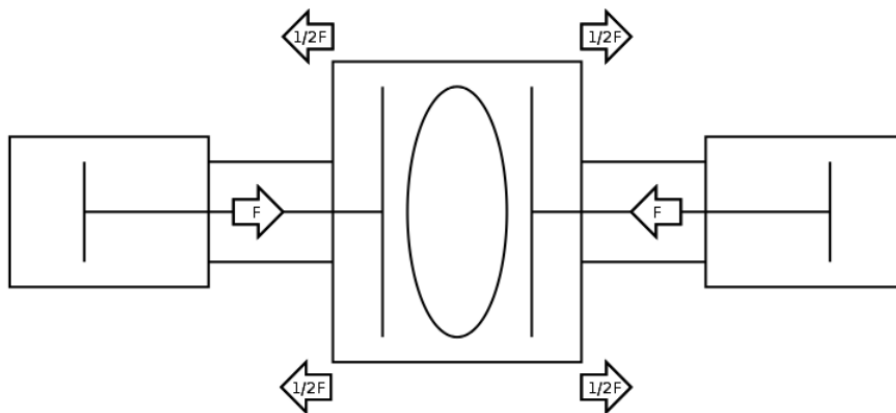
Standard Pinch Valve (Single Actuator)



Standard Pinch Valve (Single Actuator)



Flash Pinch Valve (Dual Actuator)



The advantage of the dual actuators in the Flash Pinch Valve is stability. The frame can rigidly hold the sleeve and be directly bolted to the pipeline.