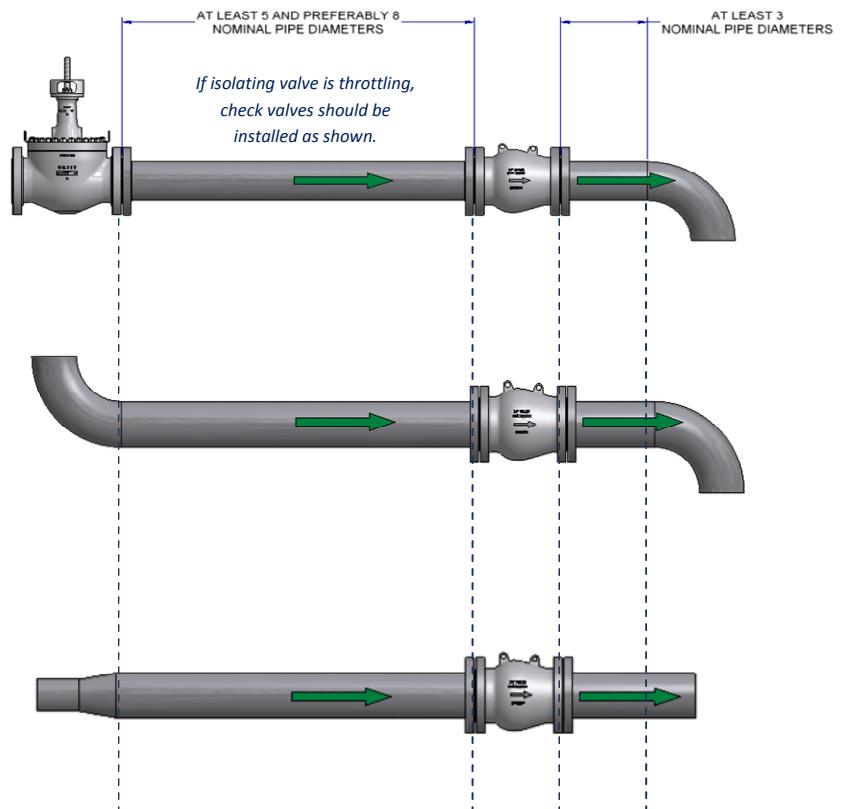


# RECOMMENDED INSTALLATION GUIDELINES FOR NOZZLE CHECK VALVES

The Nozzle Check Valve (NCV) should be installed a minimum of 5 diameters and preferably 8 diameters downstream of a flow impediment, i.e. valve, reducer or bend etc, to ensure a good flow pattern at the entry to the NCV.

The NCV should also be installed at least 3 diameters upstream of a bend or reducer to avoid choked flow conditions which can prevent the full opening of the check valve.



The Nozzle Check Valve (NCV) may be installed on the upstream side of isolating valves. If the isolating valve is throttling, clearance as shown should be allowed to ensure full pressure recovery after the NCV.

The NCV may be installed closer to the inlet of the isolating valve if it is full port and fully open.

