



STRITT & PRIEBE INC.

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STOP-CHECK/NON-RETURN VALVE SIZING INFORMATION REQUIRED Straight Through Pattern and Angle Pattern

Input Operating Conditions

Minimum Pressure: _____ psig
Maximum Pressure: _____ psig
Minimum Temperature: _____ o F
Maximum Temperature: _____ o F
Specific Volume: _____ cu. Ft/lbs (#a)
Flow Rate: _____ lbs/hr.

Customer: _____
Project: _____
Date: _____
e-mail: _____
Phone #: _____

(#a) We can obtain specific volume from steam table when provided with the temperature and pressure.

Information required to properly size Stop-Check valves includes both minimum and maximum operating conditions.

Operating Conditions (please check all that apply)

- All the valves are on one boiler
 All the valves are on separate boilers
 Boilers are operated independently of each other.
 Boilers are manifolded together to cycle between boilers.
 The idle boilers are allowed to fully depressurize.
 Idle boilers maintain a pressure in the standby boilers.

If so, what pressure is being maintained on standby _____ psig
and what is the operating system pressure? _____ psig

In addition valve installation orientation should be considered, and the overall system of operation. Please keep in mind that our stop-check valves are metal seated and are a safety valve to prevent backflow.

Since they are metal seated there is some allowable leakage rate per API-598.
A calculated minimum pressure differential is required for this valve to properly operate.

In order to properly run sizing calculations we require the flow rate (lbs/Hr.) thru the individual units (both Minimum and Maximum flows) along with the temperatures and pressures, again both minimum and maximums.

The check valve feature should not be relied upon for primary shut-off.

The calculations are based upon temperatures, pressures, and flow rates provided.
If there are significant fluctuations in any of these operating condition parameters than the units may not operate properly.

Please fax or email to sales@strittandpriebe.com