



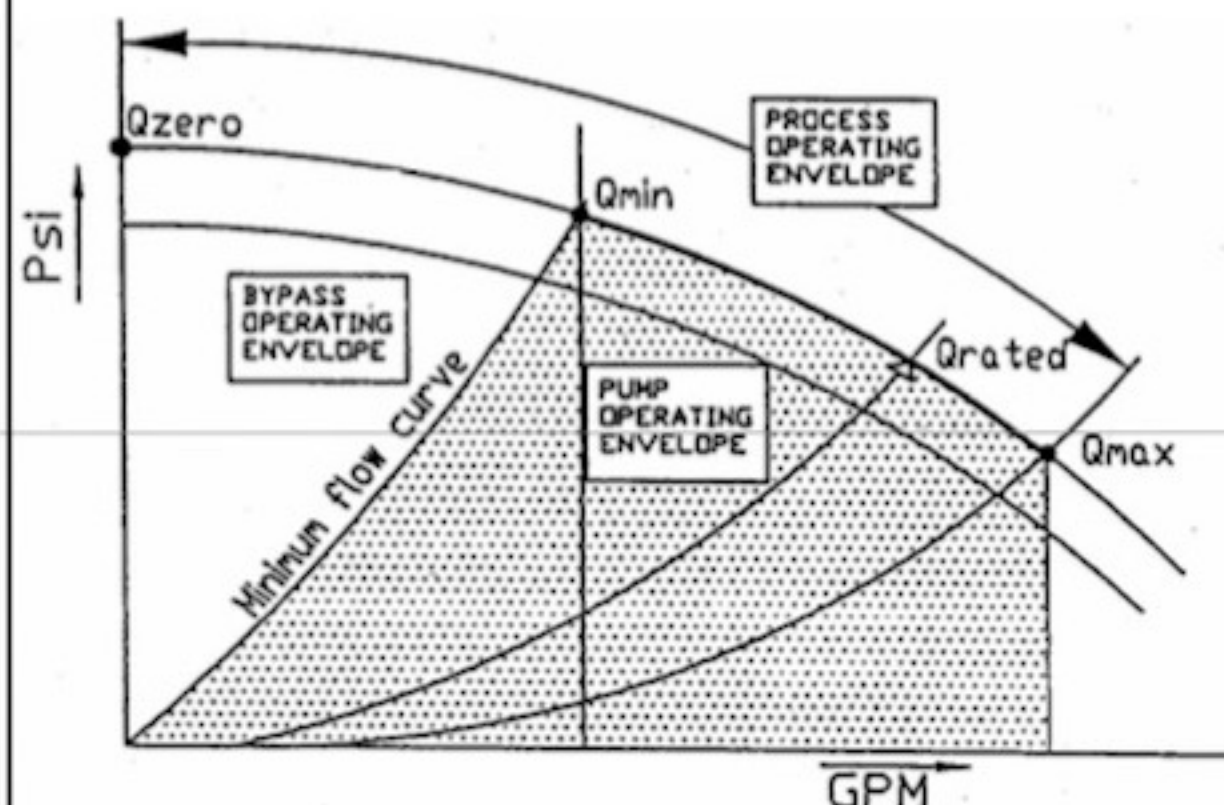
Specialty Valves

ATLANTIC GROUP, INC.

- ◆ AUTOMATIC RECIRCULATION VALVES
- ◆ BACK PRESSURE REGULATORS

COST EFFECTIVE *LOW FLOW* PUMP PROTECTION

Automatic Recirculation Valves assure safe pump operation in the complete "Process Operating Envelope."



"PROCESS OPERATING ENVELOPE" = the complete safe process operating area available for the process operation.

"PUMP OPERATING ENVELOPE" = the operating area where the Bypass is closed as process demand is Q_{min} or greater.

"BYPASS OPERATING ENVELOPE" = the operating area where the Process demand is balanced by the Bypass to Q_{min} . Bypass is partially open and balances the Process to the minimum flow (Q_{min}) as required for the pump.

The PSG-N ARV combines:

- ◆ CHECK VALVE
- ◆ FLOW SENSING
- ◆ BYPASS CONTROL
- ◆ PRESSURE BREAKDOWN IN ONE VALVE BODY.