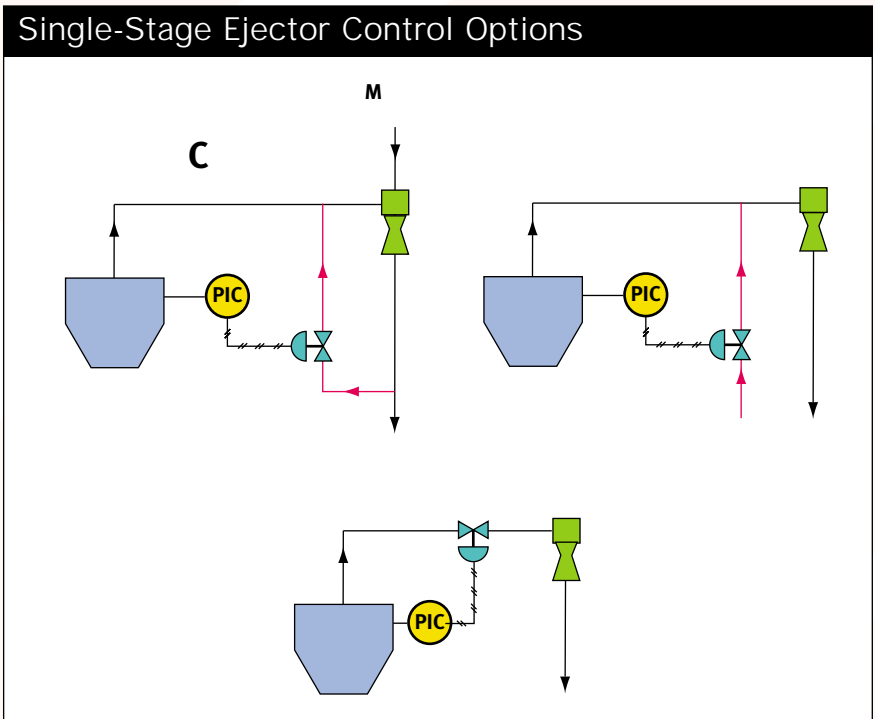





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# Pressure Control for Your Process

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Dry vacuum pumps are similar to liquid ring pumps or ejectors in terms of the techniques that can be used to control operating pressure when operating below design capacity. The most reliable method is an inert gas bleed. A throttling valve can be difficult when operating in



A liquid ring vacuum pump is similar to an ejector – it has a performance curve that describes pressure maintained by the pump as a function of loading. At loading below design capacity, a liquid ring pump will maintain a lower pressure and, conversely, above design loading capacity it maintains a higher pressure. An important point is that even if the process does not require pressure control, control may be needed to ensure reliable pump operation. If a vacuum pump is operating at no load, then the pump will pull down to a pressure that approximates the seal fluid vapor pressure. When that occurs there is the possibility of cavitation, which may cause pump failure.

