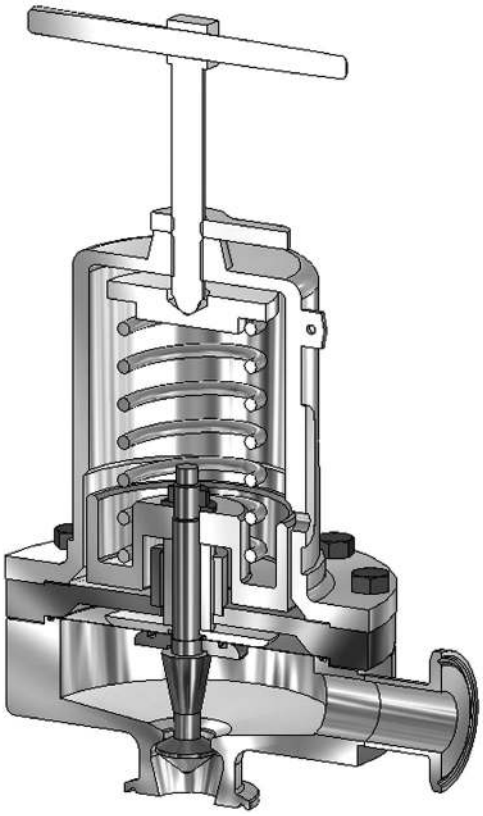
MARK 96 SERIES SANITARY REGULATORS

MANUAL, LOW TO HIGH FLOW, JORLON DIAPHRAGM

Angle style or inline, manually operated pressure reducing valves with bolted body for purified water, clean utilities and process media in the biopharmaceutical, pharmaceutical, food & beverage and consumer health & beauty industries



The Mark 96 Sanitary Pressure Regulator is designed to regulate pressure in systems requiring the maintenance of sanitary conditions.

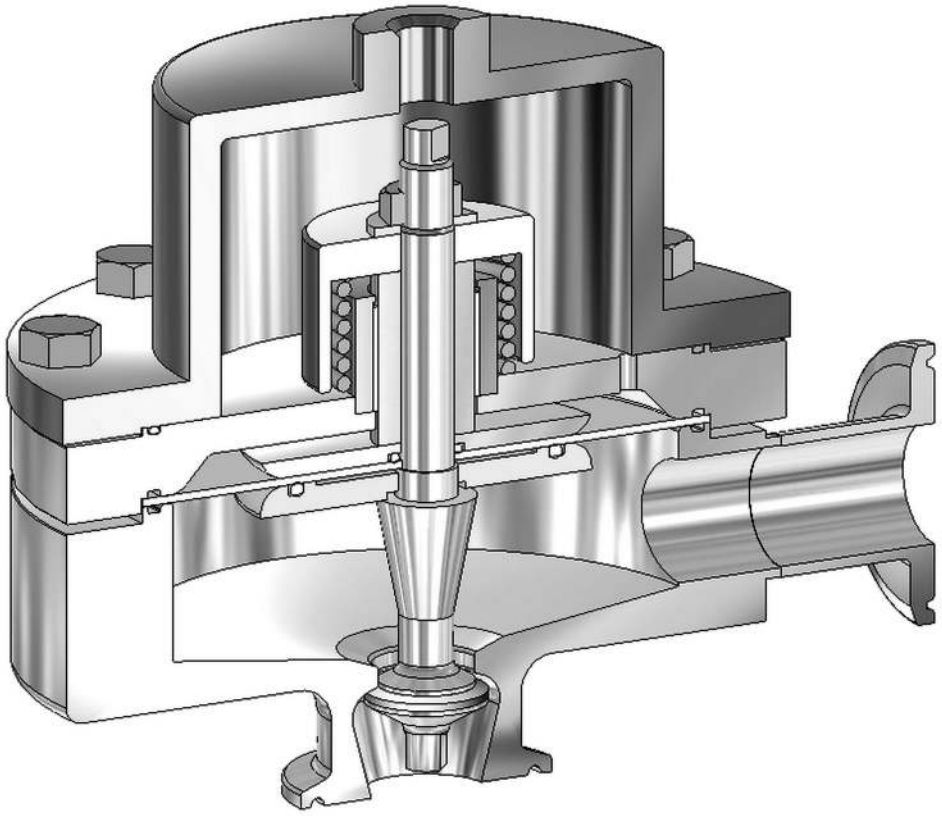
The Mark 96 operates by sensing pressure under the diaphragm on the downstream side of the seat. As the downstream pressure approaches the set point, the force caused by the pressure acting on the diaphragm overcomes the force of the range spring, and the plug begins to move up in the closing direction. This reduces the downstream pressure and maintains the set point. If the pressure underneath the diaphragm begins to fall, the spring forces the plug to move down in the opening direction to allow the set point to be maintained.

This is a self-operating valve with internal sensing - no external power or control is required. The orifice control is a force balance between the valves downstream process pressure acting on the diaphragm and the adjustment spring compression force which controls setpoint

MARK 96A SERIES SANITARY AIR LOADED PRESSURE REGULATORS

AUTOMATED, JORLON DIAPHRAGM

Angle style or inline automated pressure reducing valves for purified water, clean utilities and process media in the biopharmaceutical, pharmaceutical, food & beverage and consumer health & beauty industries



The Mark 96A is an air loaded sanitary pressure reducing valve designed to permit the user to change setpoints remotely via a cabinet or panel mounted air regulator, or through a distributed control system or PLC, using an I-P transducer.

The Mark 96A is an ideal choice for automating the SIP/CIP process when the operating setpoint for each operation is different. With remote setpoint change capability, the valve pressure can be changed by remotely adjusting the air pressure loaded to the dome to the unique needs of the current operation.

This is a self-operating valve with internal sensing. Instead of using a manually adjusted spring force to hold setpoint, a controlled air signal is used. The orifice control is a force balance between the valves downstream process pressure acting on the diaphragm and the force generated by the controlled air signal which determines the setpoint. The bias spring provides system stability.

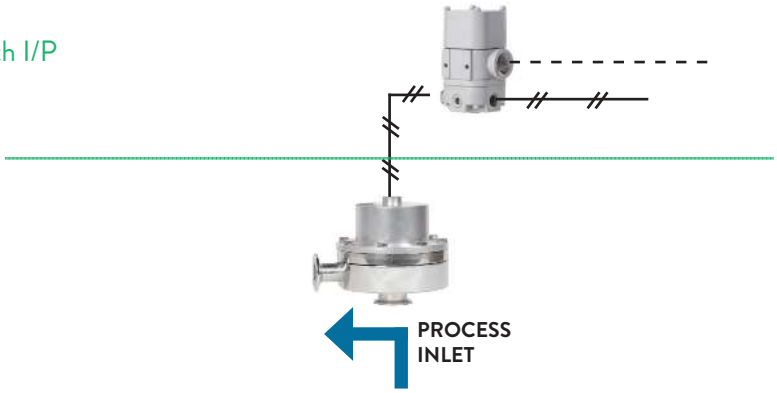
AIR LOADING A MARK 96A

The Mark 96A is used in conjunction with either a Steriflow I/P for remote control via PLC or DCS, or with a small air regulator.

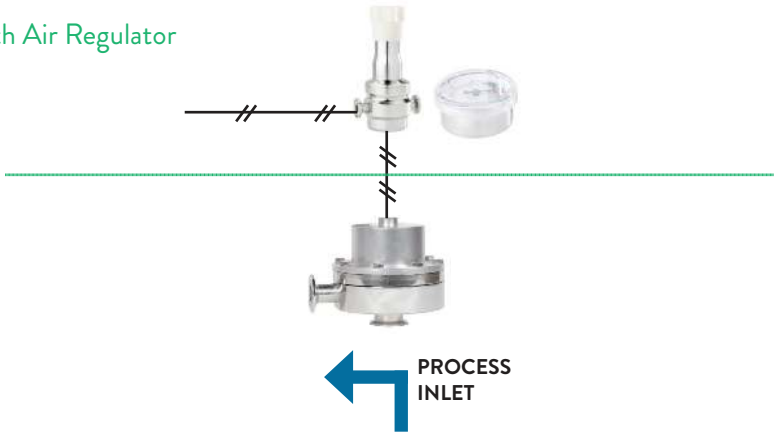
If using a regulator, we recommend the JSRLF-025 with Teflon Seat or the JSRLFE-025 with EPDM seat, specified with 0.2 Cv and self-relieving option.

The I/P or gas regulator can be direct mounted on the MK96A or mounted remotely from the valve. For example, you may want to wall or panel mount a JSRLF or the I/P outside of a clean room, and run pneumatic tubing from its outlet into the Clean room to the MK96A.

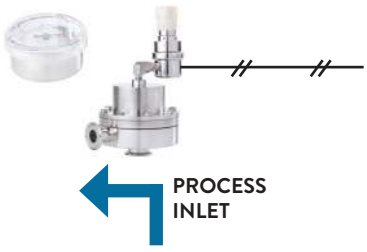
Remote Mount with I/P



Remote Mount with Air Regulator



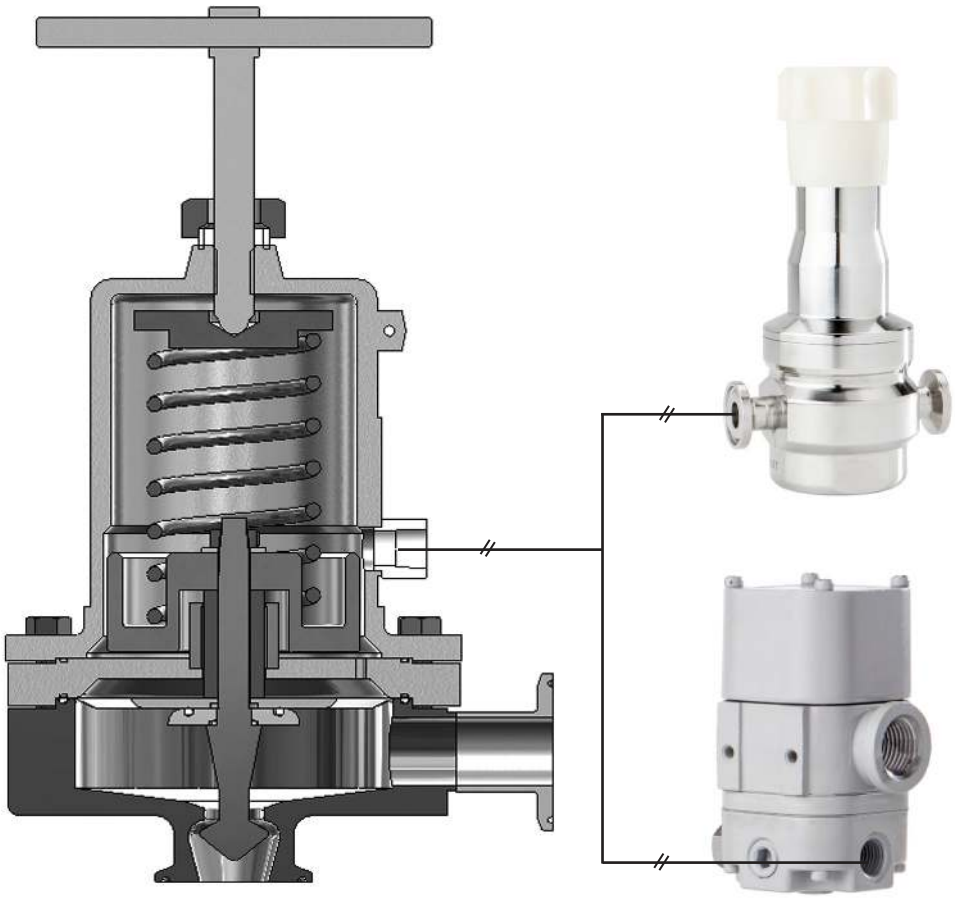
Direct Mount with Air Regulator or I/P



MARK 96AA SERIES SANITARY AIR AUGMENTED PRESSURE REGULATORS

HYBRID OR AUTOMATED, JORLON DIAPHRAGM

Angle style or inline automated or hybrid-air augmented pressure reducing valves for purified water, clean utilities and process media in the biopharmaceutical, pharmaceutical, food & beverage and consumer health & beauty industries



The Mark 96AA offers the same line sizes, Cv choices, seats, great low droop characteristics, and stability of the standard bolted bonnet Mark 96, but with an advantage. By connecting an air pressure signal to the 1/4" FNPT dome fitting via an air regulator or an I/P, the set point can be changed remotely by "*sending an air signal instead of a technician*" to adjust setpoint.

This design combines the advantages of Mark 96 and Mark 96A and allows user a user to operate in full Auto mode or a Hybrid mode, while keeping the Manual / Spring operator for backup. The Mark 96AA is ideal for multiple setpoint applications, applications where regulator access is difficult or forbidden or any applications where multi-mode availability is advantageous.