



Pressure Gauge Accessories

Overpressure Protectors

Type 910.13

Accessories, Mechanical

Application

Overpressure protectors are intended to protect the pressure gauge against the effect of pressures that exceed the maximum pressure rating of the pressure gauge. In addition to providing protection from faulty process conditions, the overpressure protector may also be used to isolate low pressure instruments on a system that requires both very low and very high pressure measurement.

Operating Principle

The Type 910.13 is supplied with a set of range springs designed to set the shut-off pressure point at any pressure from 50 to 5000 PSI. The automatic shut-off valve is positive on closing and is non-chattering. Once closed, the pressure must be reduced approximately 10% of set pressure to reopen the valve. Accuracy of the instrument used with the Type 910.13 is not affected up to the set point of the pressure shut-off.

The Type 910.13 also features an built-in adjustable needle valve to dampen system pulsation, and extend the instrument life.



Standard Features

Maximum pressure ratings

Aluminum body material:	1/4" NPT 5,000 PSI (340 BAR)
Brass body material:	1/4" NPT 5,000 PSI (340 BAR)
	1/2" NPT 10,000 PSI (680 BAR)
316 SS body material:	1/4" NPT 5,000 PSI (340 BAR)
	1/2" NPT 10,000 PSI (680 BAR)

Minimum Pressure Setting

50 PSI (Overpressure protectors will not function below 50 PSIG)

Adjustable Ranges

Silver spring - 50 to 120 PSI (3.4 to 8.2 BAR)
Black spring - 100 to 1,100 PSI (6.8 to 75 BAR)
Gold spring - 1,000 to 5,000 PSI (68 to 340 BAR)

Operating Temperature

176°F (80°C) maximum

Materials

Aluminum, brass, or 316 stainless steel body material

Gasket Materials

Viton sealing rings
PTFE backup rings

Pressure Connection

2 x 1/4" NPT female, or
2 x 1/2" NPT female

Optional Extras

Alternate connection sized
Cleaned for oxygen service

Installation & Maintenance Instructions

The Type 910.13 overpressure protector is mounted in-line with the instrument to be protected and may be mounted in any position. The automatic shut-off set point is adjusted by loosening the lock nut marked "adjust" and turning the adjustment screw. Turning "clockwise" increases the shut-off pressure and turning "counter clockwise" reduces the shut-off pressure. Type 910.13 is shipped with a 50 to 120 PSI range spring installed. Two additional springs for higher ranges are included as separate parts. The range spring can be changed by removing the adjustment screw.

The operating limits of the instrument to be protected should be considered when determining the point to set the Type 910.13 shut-off pressure. A setting of 110% of full scale of the instrument is standard practice. After the shut-off pressure has been set, the instrument should be overpressured for several minutes to verify operation. If indicated instrument pressure falls with the shut-off valve closed, there is a connection leak from the Type 910.13 to the instrument and it must be corrected. If indicated instrument pressure rises beyond the shut-off point, the Type 910.13 is defective and should be returned if new or repaired by cleaning or installing new seals if previously used. **CAUTION: Do not adjust the set point with system pressurized and in the shut-off mode. Reduce system pressure until shut-off valve is open, then make set point adjustment.**

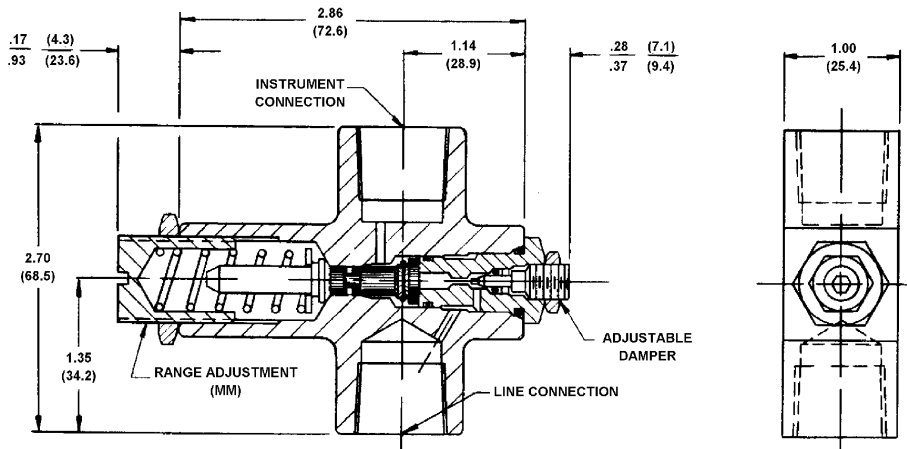
The Type 910.13 can be shut off manually with the needle valve marked "damp". The lock nut must be loosened. The valve screw is turned "clockwise" to close. Turning the valve screw "counter clockwise" one turn from closed position gives a range of pulsation dampening. Adjust the amount of dampening necessary to stop pointer oscillation on the instrument.

NOTE: Caution must be exercised when adjusting needle valve. Do not adjust more than two turns from closed position. Leakage can occur

Dimensions - inches (millimeters)

Weight

approx. 1.5 lb (0.7 kg)



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Ordering Information:

State computer part number (if available) / model number / size / range / connection size and location / options required.

Specifications given in this price list represent the state of engineering at the time of printing. Modifications may take place and the specified materials may change without prior notice



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