

#### CAUTION

Prior to installing, the instructions provided herein should be completely reviewed and understood before operating or repairing this equipment. All CAUTION and WARNING notes must be strictly observed to prevent personal injury or equipment damage.

#### Description

The Kimray sense line protector is used as an adjustable, self-resetting, pressure-limiting device to protect instrumentation from overpressurization and subsequent damage. Designed to protect pilots on high-pressure regulators. Blocks the sense line or supply pressure to a device when it exceeds the adjustable limit. Reopens when inlet pressure drops below the limit.

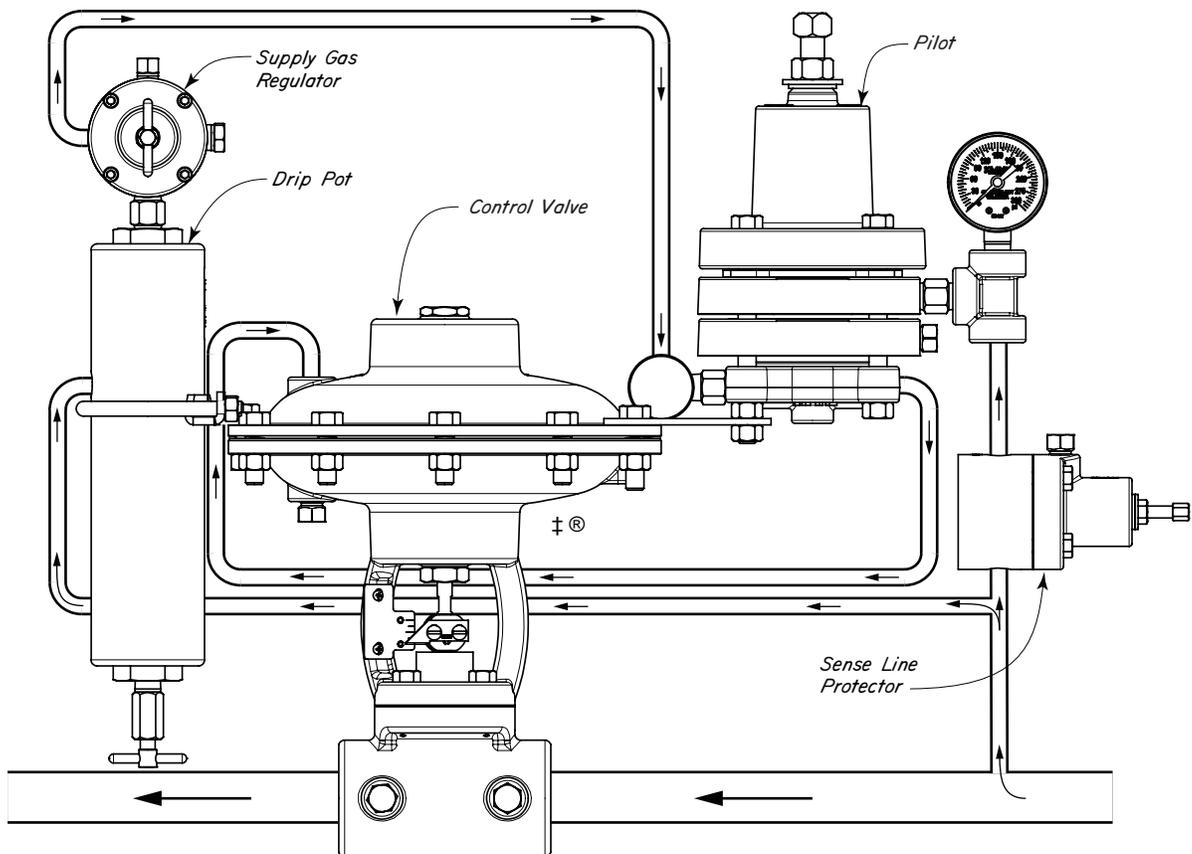
- Adjustable overpressure protectors are intended to protect pressure gauges against the effect of pressures exceeding their maximum pressure rating
- Stainless steel version for corrosive pressure media, even in corrosive ambience
- Process industry: mechanical engineering and plant construction, chemical/petro-chemical, power stations, mining, on- and offshore, environmental technology

#### To change pressure setting:

Turn adjusting screw clockwise sets closing pressure higher  
Turn adjusting screw counter clockwise sets closing pressure lower.

#### ATTENTION!

This device is not to be installed as a:  
Instrument gas regulator  
Pressure reducing regulator



#### CAUTION

When ordered, the valve configuration and construction materials were selected to meet specific pressure, temperature, pressure drop and fluid conditions. Since some body/trim material combinations are limited in their pressure drop and temperature ranges, do not subject the high pressure valve to any other conditions without first contacting the Kimray Inc. sales office or a sales / applications representative.

Figure 1

## QUICK START GUIDE

### Start-up and Test

With the installation completed and appropriate relief and check valves installed and set, slowly open the upstream and downstream shutoff valves. In order to test the functionality of the valve, allow only a small amount of upstream pressure through the upstream shutoff valve. Check for proper valve operation by cycling the source of instrument gas several times.

### Maintenance

Maintenance should be performed on a regular basis. An initial inspection interval of 12 months is recommended. Depending on the service conditions of the sense line protector, the inspection interval may be decreased or increased.

The sense line protector can be repaired without being removed from the piping.

### Repair Tips

- If pilot bleeds gas continuously, the pilot plug seat may be dirty.
- Evenly tighten the screws which hold the bonnet on.
- Diaphragms will harden with age.

Only use genuine Kimray replacement parts.

Repair kits and detailed repair instructions are available for each valve.

Visit [www.kimray.com](http://www.kimray.com) or contact your Kimray authorized distributor for additional product information and / or literature.

Inspection Schedule	
Seals	Should be replaced as needed. Check for cracks, swelling or if the seals feel hard, replace.
Pilot	Inspect spring, stem, and diaphragms once a year.
Bolts and Fittings	Make sure they are still tight.
Breather Plug	Verify that vent holes are facing down and clear of any obstruction.
*Under severe operating conditions, the maintenance schedule described will not be adequate and a shorter maintenance interval may be required.	

### WARNING

Before beginning installation:

- Read and follow instructions.
- Make sure the valve cannot operate during installation.

Do not exceed the maximum supply pressure specified on the valve name-plate.

Never tighten any fitting or the main connections to the valve while there is pressure on the line.

### WARNING

Before any service, be certain that the valve is fully isolated and that all pressure upstream and downstream has been relieved. Use bypass valves or fully shut off the process.

Be sure that any operating or instrument gas lines have been disconnected.

Never stand directly in front of or over a valve when the system is pressurized. The valve could suddenly open, blowing debris into the person's face and eyes.

### WARNING

A leaking valve is an indication that service is required. Failure to take valve out of service immediately may cause a hazardous condition.

### NOTE

If conditions indicate the possibility of backward flow you may wish to install check valves. Never assume that a check valve is fully blocking the downstream line.

For questions or comments, contact your local Kimray authorized distributor, or visit [www.kimray.com](http://www.kimray.com).

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