

# 43XX/X

## Pressure Limiting Valve






The Tradinco Instruments 43XX/X Pressure limiting valves are automatically closing valves which close at a preset pressure.

The 43XX/X series pressure limiting valves available in brass and stainless steel and can be equipped with Buna, EPDM or Viton seals to be used with different gases or liquids substances.

Both the pressure inlet and outlet of the pressure limiting valve have a 1/4 NPT female connection.

The PLV can be mounted with a M5 screw onto a panel, etc

## Installation

-  The instrument can only be installed by trained personal.
-  Check tread of the pressure ports and fittings before installation and make sure they are clean and not damaged.
-  Tapered NPT treads usually are screwed in together with Teflon tape to protect against galling and to improve sealing. It is important that no remains of the tape are able to get into the interior of the pressure limiting valve.
  - If the pressure limiting valve is used in a pressure system and is attached to tubing, attach the pressure limiting valve with a M5 screw to a frame, bracket, etc to relieve the weight of the pressure relief valve on the tubing.
  - Connect the supply port with 1/4 NPT male coupling.
  - Connect the outlet port with 1/4 NPT male coupling or manometer.



Be careful when you are working with high pressure.

## Adjustment 4360/X series

### Set Point

- Connect the inlet side to an adjustable pressure source; connect a pressure indicator to the outlet side.
- Unscrew the "locking nut"
- Slowly increase the supply pressure until the pressure on the pressure indicator stops increasing.
- To decrease the set point turn the "adjustment screw" anticlockwise
- To increase the set point turn the "adjustment screw" clockwise
- When the desired set point is reached lock the "adjustment screw" with the "locking nut"

## Adjustment 4350/X series

For different pressure settings a different spring arrangement may be required. (Figure 1)

- Unscrew the "locking nut"
- Unscrew and remove the "adjustment screw"
- Remove the plunger with the spring washers
- Rearrange the spring washers to the desired range
- Replace the plunger
- Place the "adjustment screw"
- Lock the "locking nut"

### Set point

- Connect the inlet side to an adjustable pressure source; connect a pressure indicator to the outlet side.
- Unscrew the "locking nut"
- Slowly increase the supply pressure until the pressure on the pressure indicator stops increasing.
- To decrease the set point turn the "adjustment screw" anticlockwise
- To increase the set point turn the "adjustment screw" clockwise
- When the set point is reached lock the "adjustment screw" with the "locking nut"

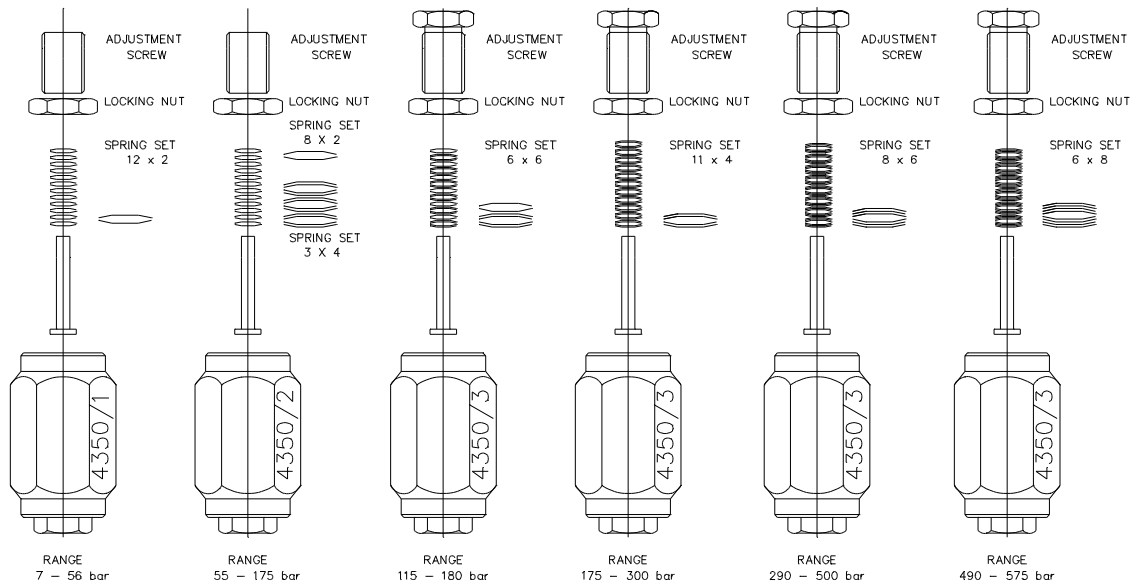


Figure 1

## Pressure Ranges

### ORDERING CODE

4360/LD  
4360/1  
4360/2  
4350/1  
4350/2  
4350/3

### RANGE

: 50 ÷ 300 mbar max. inlet pressure 100 bar  
: 0.2 ÷ 2.5 bar max. inlet pressure 100 bar  
: 2.0 ÷ 8.0 bar max. inlet pressure 100 bar  
: 7 ÷ 56 bar max. inlet pressure 700 bar  
: 55 ÷ 175 bar max. inlet pressure 700 bar  
: 176 ÷ 560 bar max. inlet pressure 700 bar

## Specifications

Media

: All gasses / liquids compatible with the materials of construction

Materials of construction

Body:

- Brass (standard)
- Stainless steel AISI 316 (optional)

Plunger: Stainless steel AISI 316

Seals:

- Buna and Teflon (standard)
- EPDM and Teflon (optional)
- Viton and Teflon (optional)

Operating temperature

: -20° C to +75° C

Pressure

: 1/4" NPT female

Dimensions

Diameter: 4360 Ø 32mm

Diameter: 4350 Ø 36mm

Length: ±80 to ±90mm depending on pressure setting

Weight

: ±0.4 kg

Application

: Pressure limiting valve

## Warranty

During the design and manufacturing of this instrument the at most attention has been given to quality and durability.

**This User Guide contains information needed for the safe and effective use of the capabilities of the instrument.**

**Please read the User Guide carefully before operating the instrument. By doing so possible damage to the instrument or damage caused by the incorrect use of the instrument can be avoided.**

TRADINCO INSTRUMENTS warrants the instrument in accordance with the Standard Terms and Conditions of the Instrument Trade as issued by the Association bearing the name "Federation Het Instrument" (The Instrument Federation, (filed with the Clerk of Utrecht District Court on 13 January 1993 under number 16/93 and with the Chamber of Commerce and Industry in Amersfoort on 18 January 1993. A copy is available on request.

TRADINCO INSTRUMENTS warrants that this product will be free from defects in materials and workmanship for a period of 12 months from the date of shipment. If any such product proves defective during this warranty period, TRADINCO INSTRUMENTS, at its option, will either repair the defective product without charge for parts or labour, or will provide a replacement in exchange for the defective product.

In order to obtain service under this warranty, Customer must notify TRADINCO INSTRUMENTS of the defect before the expiration of the warranty period and make suitable arrangements for the performance of the service.

Customer shall be responsible for packaging and shipping of the defective product to the service centre designated by TRADINCO INSTRUMENTS, with shipping charges prepaid.

If no defect can be found Customer may be charged for costs of the investigation.

This warranty does not apply to any defect, failure or damage caused by:

- Improper use of the instrument.
- Normal wear of the product.
- Modification or repair carried out by or on behalf of the owner or by a third party.
- Implementation of modifications to the product that are not supplied or implemented by TRADINCO INSTRUMENTS.

TRADINCO INSTRUMENTS and its vendors will not be liable for any indirect, special, incidental or consequential damages irrespective of whether TRADINCO INSTRUMENTS or the vendor has advance notice of the possibility of such damages.

The type number of the product, as listed on the instrument tag plate, should always be mentioned in any correspondence concerning the product.

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