



## ERG-H SERIES

PN20 Direct Acting Regulators

**ESKA**  
VALVE

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# ERG-H1 SERIES

## DIRECT ACTING PRESSURE REGULATOR



Patented  
Design

U.P.S.O.  
Option

%100 Quality  
Control



## APPLICATION

ERG-H1 Series pressure regulator which is used on gas line to reduce inlet pressure to desired outlet pressure.

ERG-H1 series pressure regulators are suitable for commercial usage like Gas Skids where the maximum inlet pressure up to 20 bar and outlet pressure up to 4 bar.

It is mainly used in Distribution of Natural Gas and also suitable to use with non-corrosive gases. ERG-H1 is a single stage regulator with a optional security systems such as relief valve UPSO and OPSO/

## FEATURES

- For medium and high pressure domestic or industrial second group gas lines.
- Max inlet pressure 1 to 20 bar.
- Max outlet pressure MPO: 100 to 800 and HPO : 800 to 4 bar.
- Optional filter on inlet.
- Outlet pressure tolerance is  $\pm 5-10$  (AC5 & AC10)
- Lock up pressure tolerance is max  $+30$  (SG30)
- Can be integrated with Relief valve & UPSO & OPSO
- Temperature class as a standard -20 to +60 Centigrade Degree. Low temperature series has ability to work under as low as -40 Centigrade Degree.
- Flow direction inline and angle type.

## DESIGN

The ERG-H1 Series pressure regulator body consists of :

- Valve housing
- Internal thread
- Filter
- Set up tool
- Breather consol.
- Optional pressure test point.
- Over pressure shut off OPSO
- Under pressure shut off UPSO
- Integrated bypass

## MATERIALS

- Body and covers Steel or Iron
- Rubber components have gas approval according to EN 549
- Brass materials are suitable according to EN 12164 Standard.
- Plastic materials are POM
- Filter material is synthetic fiber.

## SPECIFICATIONS

**Medium :** Second Family Group H

**Operating temperature :** -40...+60

**Assembly :** Vertical and Horizontal Position

**Way :** 2/2

**Maximum inlet pressure :** 20 bar

**Outlet pressure range :** 100 mbar to 4 bar.

**Referring :** EN 334, EN 13611

**Conforming :** PED 97/23

**Filter :** As a standard 100 micron pore diameter.

# ERG SERIES

PRESSURE REGULATORS



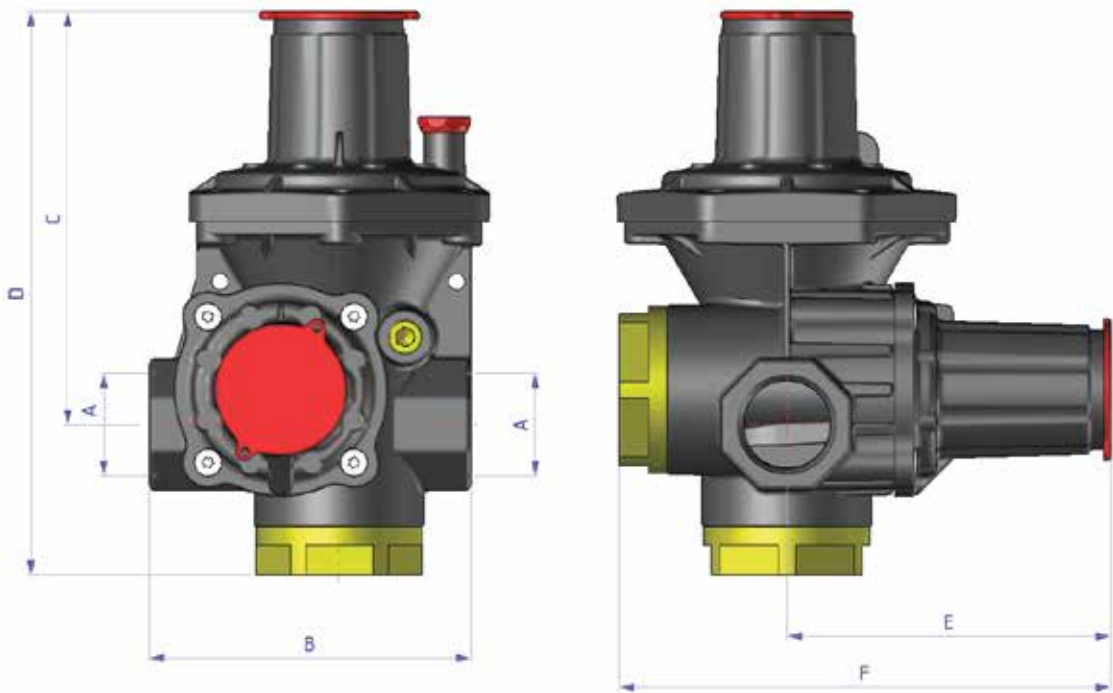
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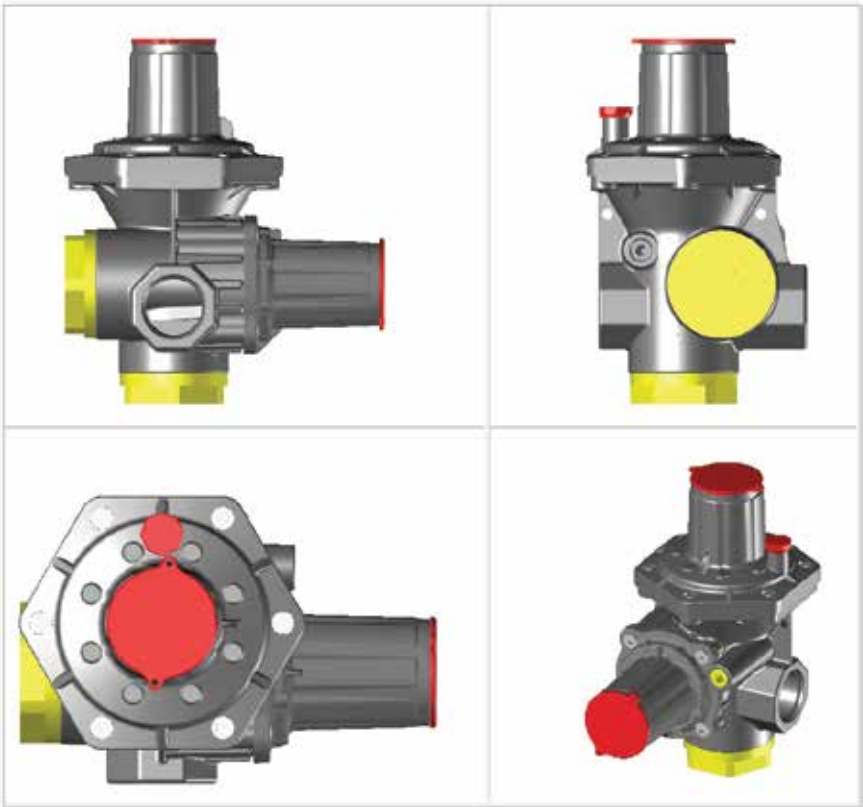
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Control



## DIMENSIONS



A	B	C	D	E	F
1"	110	141,5	194	111	170



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## SPRING RANGE

### Outlet Pressure

Model	Spring Range
ERG-H1 MPO	100-250 mbar
ERG-H1 MPO	250 to 500 mbar
ERH-H1 MPO	400 to 800 mbar
ERG-H1 HPO	700 to 1700 mbar
ERG-H1 HPO	1600 to 4000 mbar

Kindly ask for suitable OPSO and UPSO springs.

## CAPACITIES

Nominal Flow Rate SCMH	Po≤800 mbar	800≤Po≤2400 mbar	Po≥2400 mbar
25	Po+0.3	Po+0.2	Po+0.2
50	Po+0.5	Po+0.3	Po+0.3
100	Po+1	Po+1.2	Po+1.2
160	Po+2.5	Po+2	Po+2.0
240		Po+3.5	Po+4.0

## INSTALLATION

### IMPORTANT

Take care that installer is a trained experienced service person.  
Turn off gas supply before starting installation.

### Mounting position



#### WARNING

Vertical mounting only



#### WARNING

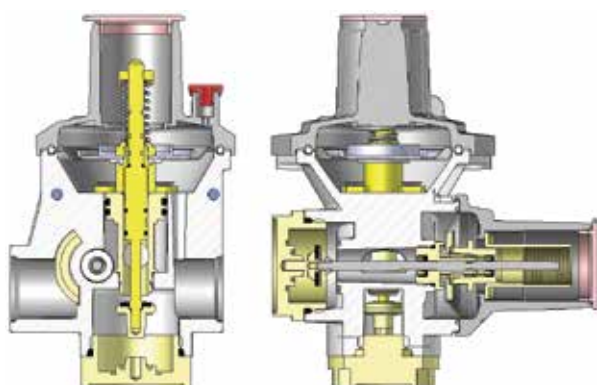
Prior to installation make sure:

- that the gas supply is shut off
- that there is no compressed gas in the pipe on which the device will be installed
- that there is no axis eccentricity in the pipe line where the device will be installed
- that the pipes are cleaned inside and outside and free from foreign particles like welding flux dirt chips etc.

The device shall not be exposed to excessive load and impact during installation. Install the device without mechanical stress. Cracks resulting in gas leakage can be caused by excessive loads applied to the body. Therefore, perform the installation with an appropriate wrench.

The arrow on the body of the device indicates the gas flow.

Required space as per external sizes of the device shall be left around the appliance and in between the device and the wall in order to test the device and allow access to components.



To change the spring,

First open the plastic cap (1) and remove, spring adjusting plastic (2) and spring holder plastic (3), after that replace the spring (4) and place all the plastics in order.