# Series HP

## Pneumatic valve positioner

## SPECIFICATION



The Pneumatic Positioner is used in conjunction with pneumatic control valves to increase accuracy of the positioning action of the valves.
The Pneumatic Positioner compares the valve position and the air signal from the controller to position valve stem and valve quickly to a position proportional to the controller air signal, independent of counteracting forces such as caused by packing friction, differential pressure and other disturbing influences.

## Features

- **Simple, proven design**
- **Easy operation type selction: forward or reverse**
- **Action: direct or reversed (the input signal growth corresponds to output signal growth or decrease)**
- **Field reversible**
- **Split ranges available**
- **reliable and simple installation**
- **linear, accelerating and decelerating characteristics**
- **Universal mounting kit**

# Specifications

| | |
|---|---|
| **- input (control) signal** | 20…100 kPa; 20...60 kPa; 60...100 kPa |
| **- supply pressure** | 140...600 kPa |
| **- pneumatic output signal** | 0…100% of supply pressure |
| **- cooperating actuator stroke** | 10…101,6 mm |
| **- nonlinearity** | <1,5% of input signal width |
| **- hysteresis** | <1% of input signal width |
| **- sensitivity** | <0,06% of input signal width |
| **- operation characteristic** | linear, accelerating, decelerating |
| **- output delivery** | min. 15...36 kg/h at supply pressure 140...600 kPa and input signal 60 kPa |
| **- air own consumption** | 0.26...0.68 kg/h at supply pressure 140...600 kPa |
| **- acceptable ambient temperature** | -25°C...+65°C |
| **- additional errors:** | |
| from supply pressure changes of 10% | 0,3% of input signal width |
| from temperature changes | 0.5% /10°C |
| **- humidity** | 5...100% |
| **- cover protection rating** | IP54 |
| **- pneumatic terminals** | screwed holes 1/4" NPT or copper or polyethylene pipes ø6 or ø8 mm connectors |
| **- operational position** | arbitrary |
| **- weight** | 1.8...3.8 kg, depending on version |

## Model Selection Guide

**Pneumatic Positioner**
**HP**

**Instructions** Select the desired Key number. The arrow to the right marks the selections available.
Make one selection each from Tables I through II, using the column below the proper arrow.

Table ▼ ►

| I | II |
|---|---|
| H P _ _ _ _ - | _ _ |

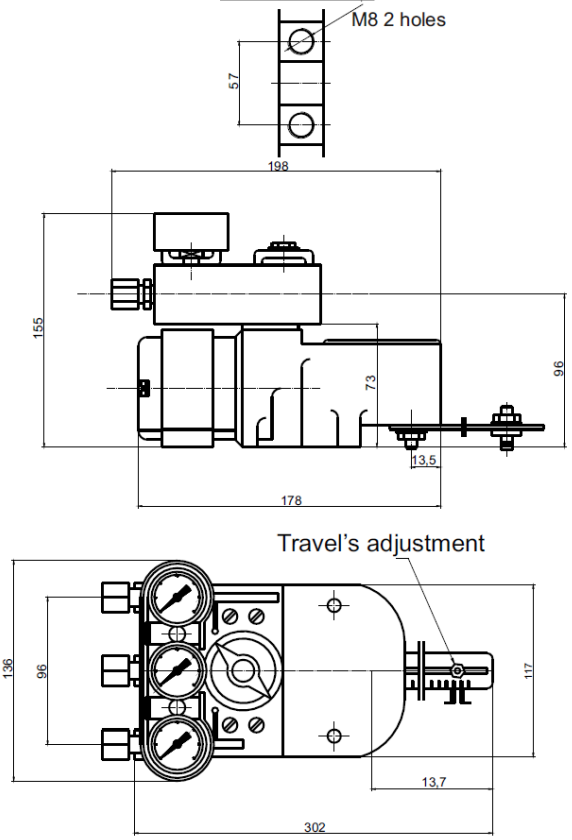
| I | POSITIONER SPECIFICATION | |
|---|---|---|
| SPRING RANGE | 0,2 - 1,0 bar | 1 1 _ _ |
| | 0,2 - 0,6 bar | 2 1 _ _ |
| | 0,6 - 1,0 bar | 3 1 _ _ |
| OPTIONS | With gauges With bypass | _ _ 1 1 |

| II | | |
|---|---|---|
| VERSION | Input(0-2)+Output(0-6)+Supply(0-6), Stainless with brass internals, 10-100m | G 1 |
| | Input(0-2)+Output(0-6)+Supply(0-6), Stainless with stainless intern., 10-100mm | G 3 |

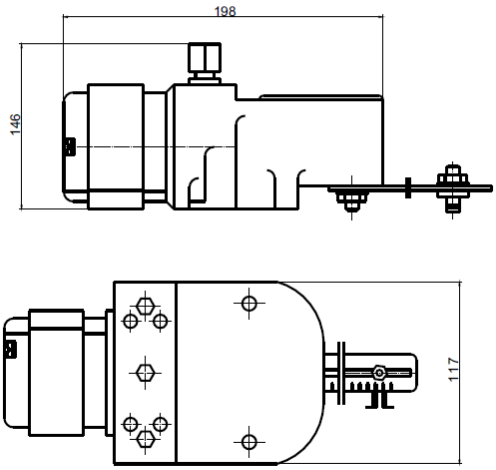
| MOUNTING KIT | |
|---|---|
| 43192685-001 | Mounting Kit (IEC534) lever short (length 95mm) |

## Dimensions

**POSITIONER WITH MANOMETERS AND SWITCH**




**POSITIONER WITHOUT MANOMETERS AND SWITCH**




**A. Hock MSR- u. Electronic Service GmbH**
Dr.-Konrad-Wiegand-Strasse 13
D-63939 Wörth am Main

**Valve Division**
Tel.: +49 (0) 9372 94 756 -12  Fax -22