



Proportional Linear Actuator NCA146014

### Product Description

The Pressure Independent Control Valve (PICV) is a device composed of an automatic flow rate regulator and a control valve with actuator. The device can adjust flow rate and keep it constant in the presence of changing differential pressure conditions of the circuit.

The pressure independent control valves can be used in air-conditioning systems, fan-coil units, VAV applications and cooling ceilings for activation of the heating or cooling.

#### Various Sizes

The NCV146xxx PICV's are available in various sizes: DN65, DN80, DN 100, DN125 and DN150, all with flanged connections PN16. Valve body is made of grey cast iron. Valves have an adjustable maximum flow rate setting maintaining a full stroke to enable flow limitation and balancing to the coil or zone that the valve is controlling. The valve actuators accept 0(2)-10V input signal.

#### Compliant Actuation

The proportional linear valve actuator NCA146014 is used together with PICV's NCV146060 and NCV146080. The proportional linear valve actuator NCA146015 is used together with NCV146100, NCV146120 and NCV146150 PICV's

### Ordering Codes

NCV146060	Pressure Independent Control Valve DN65
NCV146080	Pressure Independent Control Valve DN80
NCV146100	Pressure Independent Control Valve DN100
NCV146120	Pressure Independent Control Valve DN125
NCV146150	Pressure Independent Control Valve DN150
NCA146014	Actuator 24V 0-10V
NCA146015	Actuator 24V 0-10V

### Features and Benefits

- ▶ Pressure Independent Control Valve
- ▶ Hydraulic Balancing of the Circuit and adjustment of the Flow Rate to the terminals
- ▶ Grey Cast Iron Body of Valve
- ▶ Flanged Connections
- ▶ Used with Proportional Linear Actuators NCA146014 (DN65 and DN80 models) or NCA146015

### Technical Information

PICV	
<b>Medium:</b>	Water, Glycol
<b>Max. Percentage of Glycol</b>	50%
<b>Max. Working Pressure:</b>	16 bar
<b>Operating Temperature:</b>	-20°C .... 120°C
<b>Nominal <math>\Delta p</math> Control Range</b>	30 – 400 kPa
Proportional Linear Actuator	
<b>Electric Supply</b>	24V AC/DC
<b>Control Signal</b>	0-10 V
<b>Protection Class</b>	IP54
<b>Ambient Temperature Range</b>	-30 ... 50°C