



Proportional Linear Actuator
 NCA145015

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 NCV145771 PICV is of size DN32 (1 1/4" F), NCV145881 is of size DN40 (1 1/2" F) and NCV145991 of size DN50 (2" F). Valve body is made of brass. Connections are fixed female ISO. 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 Actuators

The proportional linear valve actuator NCA145015 is used together with NCV145771 PICV's. The proportional linear valve actuator NCA145016 is used together with NCV145881 and NCV145991 PICV's.

Features and Benefits

- ▶ Pressure Independent Control Valve
- ▶ Hydraulic Balancing of the Circuit and adjustment of the Flow Rate to the terminals
- ▶ Extremely Compact, suitable for installation even in small spaces
- ▶ Brass Body of Valve
- ▶ Used with Proportional Linear Actuators NCA145015 (DN32 model) or NCA145016

Technical Information

PICV	
Medium	Water, Glycol
Max. Percentage of Glycol	50%
Max. Working Pressure	25 bar
Operating Temperature	-20 ... 120°C
Nominal Δp Control Range	16 - 400 kPa

Proportional Linear Actuator	
Electric Supply	24V AC/DC
Power Consumption	2.5 VA (NCA145015) 7.0 VA (NCA145016)
Control Signal	0-10 V
Protection Class	IP54
Ambient Temperature Range	-18 ... 50°C (NCA145015) +2 ... 50°C (NCA145016)

Ordering Codes

NCV145771	Pressure Independent Control Valve 1 1/4" DN32 F
NCV145881	Pressure Independent Control Valve 1 1/2" DN40 F
NCV145991	Pressure Independent Control Valve 2" DN50 F
NCA145014	Actuator 24V 0-10V
NCA145015	Actuator 24V 0-10V
NCA145016	Actuator 24V 0-10V