



Proportional Linear Actuator NCA145014



Pressure Independent Control Valve NCV145550H40

Product Description **Features and Benefits**

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.

Construction Material

Valve body and headwork are made of dezincification resistant alloy. Springs, control stem and piston are made of stainless steel. These materials guarantee accuracy and reliable performance over time and prevent corrosion.

Various Sizes

The NCV145xxx PICV's are available in various sizes: DN15 (3/8" and 1/2"), DN20 (3/4" and 1") and DN25 (3/4", 1" and 1 1/4"). The pressure independent control valve (PICV) is supplied complete with connections for upstream and downstream pressure test ports for checking of operating conditions. The device can be used in air-conditioning systems.

Compliant Actuation

The proportional linear valve actuator NCA145014 is used together with NCV145xxx PICV's.

- ▶ 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
- ▶ Available in various flow rates and pipe sizes
- ▶ Used with Proportional Linear Actuator NCA145014

Technical Information **Ordering Codes**

PICV	
Medium	Water, Glycol
Max. Percentage of Glycol	50%
Max. Working Pressure	16 bar
Max. Differential Pressure	5 bar
Operating Temperature	-20°C ... 120°C
Nominal Δp Control Range	25 - 400 kPa

Proportional Linear Actuator	
Electric Supply	24V AC/DC
Power Consumption	2.5 VA (AC) / 1.5W (DC)
Control Signal	0-10 V
Protection Class	IP43
Ambient Temperature Range	0 ... 50°C

NCV145430H40	Pressure Independent Control Valve DN15 Ø 3/8" (flow rate 0.08-0.40 m3/h)
NCV145430H80	Pressure Independent Control Valve DN15 Ø 3/8" (flow rate 0.08-0.80 m3/h)
NCV145440H40	Pressure Independent Control Valve DN15 Ø 1/2" (flow rate 0.08-0.40 m3/h)
NCV145440H80	Pressure Independent Control Valve DN15 Ø 1/2" (flow rate 0.08-0.80 m3/h)
NCV145550H40	Pressure Independent Control Valve DN20 Ø 3/4" (flow rate 0.08-0.40 m3/h)
NCV145550H80	Pressure Independent Control Valve DN20 Ø 3/4" (flow rate 0.08-0.80 m3/h)
NCV1455501H2	Pressure Independent Control Valve DN20 Ø 3/4" (flow rate 0.12-1.20 m3/h)
NCV1455501H8	Pressure Independent Control Valve DN20 Ø 3/4" (flow rate 0.18-1.80 m3/h)
NCV145560H40	Pressure Independent Control Valve DN20 Ø 3/4" (flow rate 0.08-0.40 m3/h)
NCV145560H80	Pressure Independent Control Valve DN20 Ø 3/4" (flow rate 0.08-0.80 m3/h)
NCV1455601H2	Pressure Independent Control Valve DN20 Ø 3/4" (flow rate 0.12-1.20 m3/h)
NCV1456601H8	Pressure Independent Control Valve DN20 Ø 1" (flow rate 0.08-0.40 m3/h)
NCV1456603H0	Pressure Independent Control Valve DN20 Ø 1" (flow rate 0.08-0.80 m3/h)
NCV1457701H8	Pressure Independent Control Valve DN20 Ø 1" (flow rate 0.12-1.20 m3/h)
NCV1457703H0	Pressure Independent Control Valve DN20 Ø 1" (flow rate 0.18-1.80 m3/h)
NCA145014	Actuator 24V 0-10V