

### Needle Valve

This device is an adjustable restriction. When installed in various control loops it is used for controlling opening or closing speed.

**Needle valve types:**

5° - for up to 4" (100 mm) valves

15° - for 6" (150 mm) and larger valves

**Technical Data**

**Pressure rating:** 40 bar (600 psi)

**Standard materials:**

**Body:** Brass

**Needle:** Stainless steel 303

**Needle seat:** Stainless steel 303

**Seals:** NBR

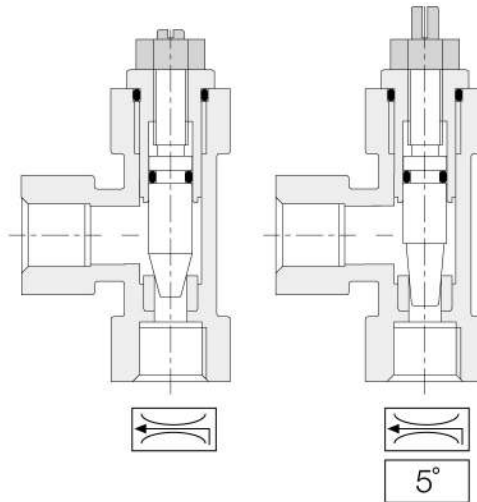
**Optional materials:**

**Metal parts:** Stainless steel 316

**Seals:** FPM

**Ports:** 1/4" NPT

**Maximum temperature:** 80°C (180°F)



### Needle & Check Valve

This device is a 1-way adjustable restriction. Flow in the direction of the needle is restricted while flow in the opposite direction is unobstructed. When installed in various control loops it is used for controlling opening or closing speed. Installed together with a standard needle valve, it enables controlling opening and closing speeds in the same control loop.

**Technical Data**

**Pressure rating:** 40 bar (600 psi)

**Flow factor:** Kv 0.85 (Cv 1.0)

(in unrestricted flow direction)

**Standard materials:**

**Body:** Brass

**Needle:** Stainless steel 303

**Needle seat:** Stainless steel 303

**Spring:** Stainless steel 302

**Seal disc:** Stainless steel 304

**Seals:** NBR

**Optional materials:**

**Metal parts:** Stainless steel 316

**Seals:** FPM

**Ports:** 1/4" NPT

**Maximum temperature:** 80°C (180°F)

