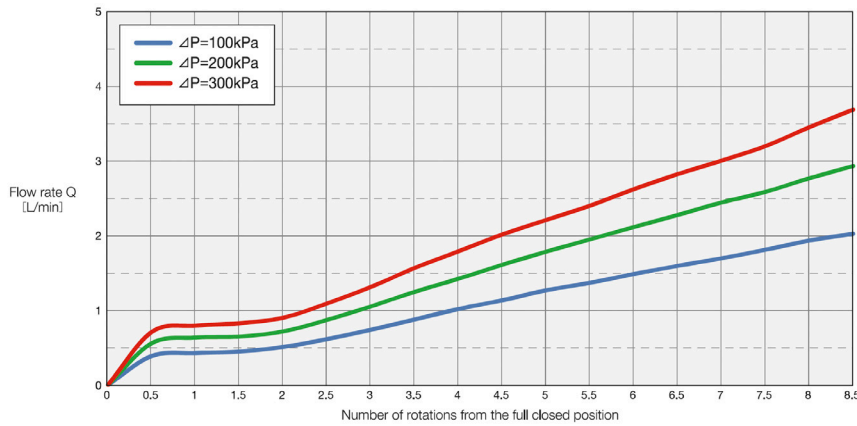


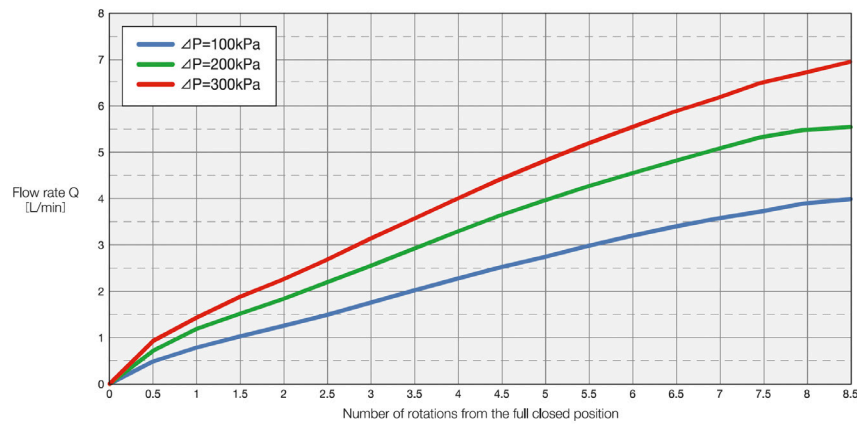


**FLOW RATE CONTROL CHARACTERISTICS**

- PSDX-2P300P-12



- PSDX-3P300P-12



Fluid: DI water    Fluid temperature: 25°C±1°C    Ambient temperature: Room temp.  
 \* the data is reference value not a guaranteed value

**OPERATING PRINCIPLE OF DIFFERENTIAL SCREW**

The mechanism consists of an outer shaft with a coarse-pitch screw (pitch A) on the outside and a fine-pitch screw (pitch B) on the inside, along with an inner shaft fitted with a fine-pitch screw (pitch B) fixed to the body.

When the knob is rotated one full turn, the outer shaft advances by pitch A. At the same time, the inner shaft engaged with the fine-pitch screw advances by pitch B. As a result, the inner shaft moves by the difference between pitch A and pitch B.

For example, if pitch A is 1.0 mm and pitch B is 0.8 mm, the inner shaft moves 0.2 mm per rotation of the outer shaft.

This mechanism enables finer flow control compared to conventional products.

