PILLAR

Flow control valve integrated with Super 300 Type Pillar Fitting™

■ Features

▌ Excellent chemical resistance

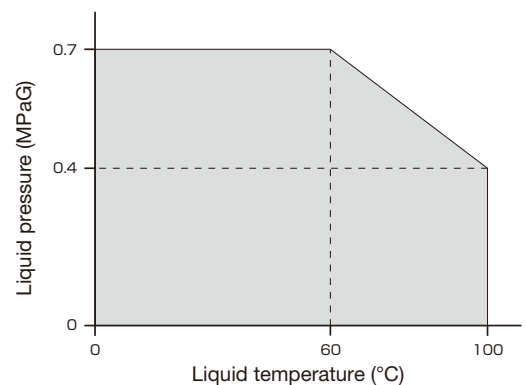The valve body is made of PFA, enabling this product to cope with various types of liquid chemicals.

▌ Combination of orifice shape and needle shape

In addition to the features of being compact and lightweight, this product allows slight flow rate adjustment.
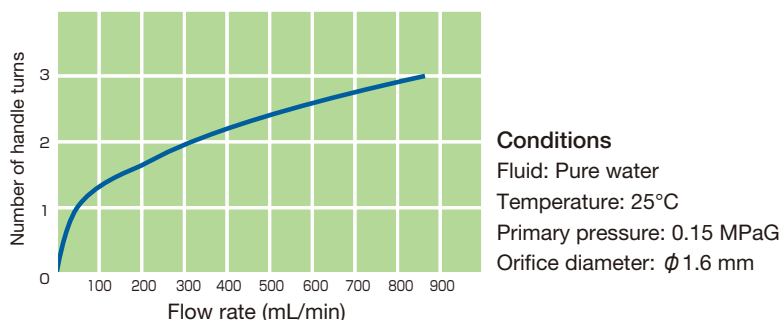
Specifications

▶ Maximum operating temperature: 100°C

▶ Maximum operating pressure: 0.7 MPaG

▶ Applicable fluid: Liquid

▶ Ambient temperature range: 0 to 60°C
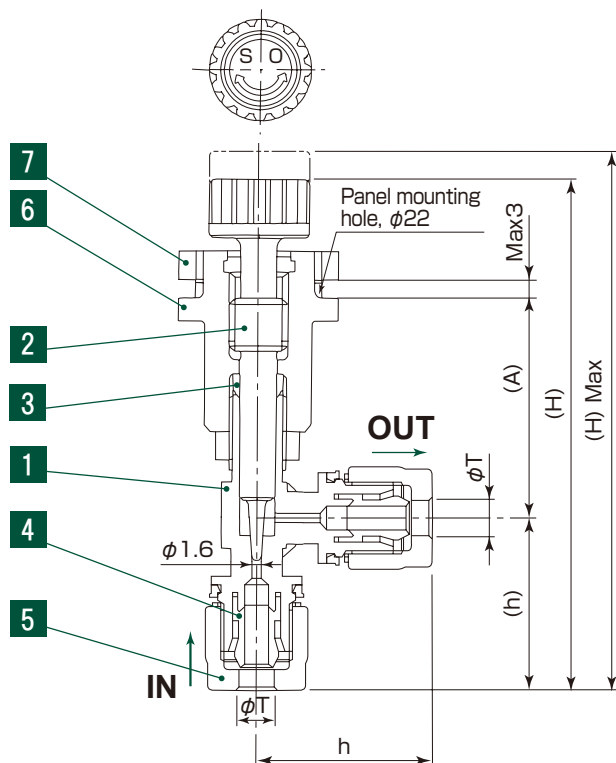
▶ Operating method: Manual

■ Operating range

NIPPON PILLAR PACKING CO., LTD.

■ Performance curve

Number of handle turns vs Flow rate (mL/min)

Note: This performance curve shows reference values, not specifications.

Conditions
Fluid: Pure water
Temperature: 25°C
Primary pressure: 0.15 MPaG
Orifice diameter: ϕ1.6 mm

■ Cross-sectional structural drawing

Panel mounting hole, ϕ22

Max3 (A) (H) (H) Max

OUT ϕT

ϕ1.6

IN ϕT

h

■ Main parts list

Parts	No.	Part name	Material
Wetted parts	1	Valve body	PFA
	2	Needle	PFA
	3	Ferrule	PTFE
	4	Sleeve	PFA
Non-wetted parts	5	Union nut	PFA
	6	Outer nut	P.P
	7	Lock nut	PFA

■ Size table

Unit: mm

mm-based tube							
Product No.	Tube size ϕT (O.D×I.D)	(H) (max)	(H)	Orifice diameter ϕS	(h)	(A)	Panel mounting hole
PCAP−P3B	3 × 2	87.5	82.5	1.6	24	37	22
PCAP−P6B	6 × 4	92.2	87.5		29.5		

Inch-based tube							
Product No.	Tube size ϕT (O.D×I.D)	(H) (max)	(H)	Orifice diameter ϕS	(h)	(A)	Panel mounting hole
PCAP−PW1B	3.18×2.18	87.5	82.5	1.6	24	37	22
PCAP−PW2B	6.35×3.95	92.2	87.5		29.5		

Note: The fitting cross-sectional structure of PCAP-P3B and PCAP- PW1B differs from the one shown in the figure above.

⚠ **Safety precaution** ● When using this product, please use correctly and pay sufficient attention to safety.

＊Please understand that this catalog may change without prior notice.
＊The values shown on this catalog are reference values, not guaranteed values.