

Simplified Panel-mount Miniature Needle Valve

MODEL 2400 SERIES

This is a miniature needle valve at an affordable price with simplified construction that allows easy control of operation for fine regulation of gases and liquids. Its simplified structure is comprised of the components that are the minimum requirement, avoiding overspecification.

Features

- **Panel-mount miniature type**
Compact, space-saving, and ideal for mounting on the instrumentation board
- **Compatible with both gases and liquids**
- **All precision-machined components are perfectly cleaned before assembly to ensure cleanliness of the product for the customer's use with peace of mind.**

Applications

- For flowmeters and pressure gauges
- For pollution-related instruments and analyzers
- For gas/liquid flow controls at laboratory
- For integration into instrumentation boards
- For sampling systems

Standard Specifications

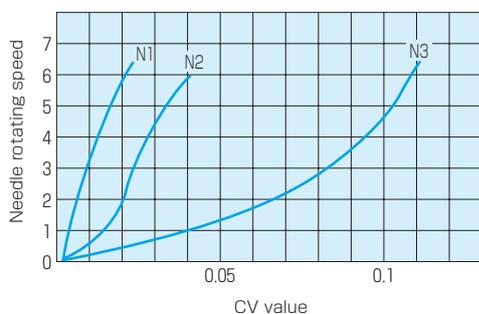
Regulating screw rotating speed	Approx. 12 turns (Effective turns: 5-12)
Type of needle	Three types
Max. operating pressure	0.6MPa
Materials of parts exposed to fluids	B: Brass, NBR, SUS 303, POM S: SUS 304, Viton, SUS 303, fluorocarbon resin
Connection end	Rc1/4
Flow rating	See the table below.

Table of Rated Flow Ranges (Reference)

Due to operating conditions and instrumental errors, there may be differences between the values indicated in this table and those that are actually used by the customer. Please use these values for reference only.

Needle #	Max. CV value	Supply pressure (MPa)(Air at 20°)						Supply pressure (MPa)(Water at 20°)		
		0.01	0.05	0.1	0.2	0.3	0.05	0.1	0.15	
N1	0.018	1.6	5.0	7.5	12.0	15.0	0.16	0.24	0.31	
N2	0.03	3.8	9.0	13.0	21.0	27.0	0.26	0.42	0.86	
N3	0.13	12.0	31.0	55.0	90	120	1.2	1.8	2.5	

CV Values

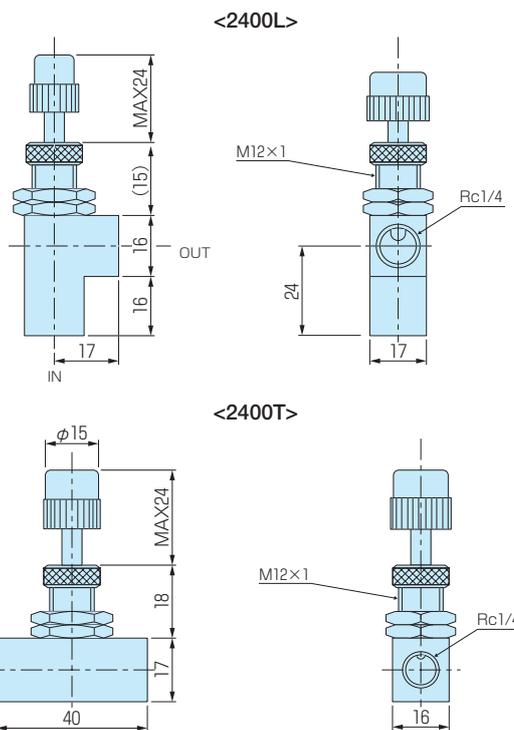


Notes:

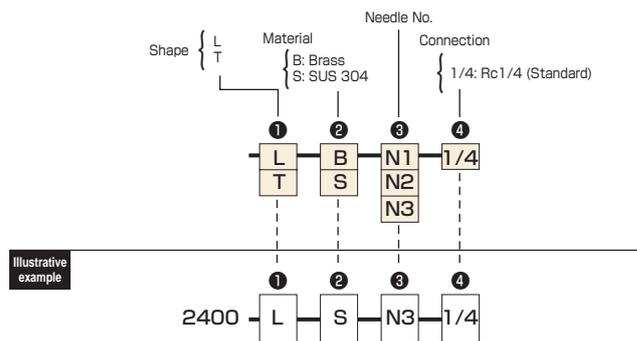
- Refer to Model 2400D on page 109 for large capacity valve.
- If you are not sure which needle you should use for your equipment, please indicate the fluid, pressure and flow rate of your equipment on the Order Form. We can suggest you the needle number most suitable for your equipment.
- Connection openings not included in the standard specifications.



Dimensions



Ordering



* Refer to "Ordering" and "Illustrative Example" when placing an order or requesting a quotation. Fill in the blanks in the "Order/Quotation Request Card" at the end of the catalog, and send the card by fax.