

Pressure Regulating Valve (Precision Regulator for Analytical Equipment)

MODEL 6600 SERIES

This is a compact, lightweight precision pressure regulator with superior repeatability to provide reliable and speedy regulations. Since all the components are perfectly cleaned before assembly, this model is ideal for high-sensitivity instruments for analysis required for R&D activities.

Features

- **High-precision control characteristic**
High control performance with repeatability within a range of $\pm 1\%$ against fluctuations in pressure on the primary side and load resistance variations on the secondary side
- **Perfect for panel mounting**
Flow inlet and outlet are located on the back of the product to facilitate easy pipe connection. Additionally, it is compact in size and light in weight, ideal for panel instrumentation systems.
- **Bleed-free**
All units are subjected to a rigorous leak test before shipping though the product is bleed-free.

Applications

- Gas chromatographs
- Scientific instruments
- Gas mixing systems in various fields

Standard Specifications

Max. primary pressure	784 kPa
Secondary control pressure	Type A: 9.8-294 kPa Type B: 29.4-588 kPa
Min. operating differential pressure	49 kPa
Proof pressure	784 kPa
Repeatability	Within $\pm 1\%$ of the rated pressure
Temperature characteristic	Within $\pm 1\%/10^\circ\text{C}$ of the rated pressure
Heat resistance	Aluminum body: 60°C ; Stainless steel body: 120°C
Flow rating	See the rated value diagrams on page 123.
Connection end	Rc1/8, Rc1/4
Materials of parts exposed to fluids	A: Al, Brass, NBR, POM, SUS316 SS: SUS 316, Viton, fluorocarbon resin

Optional Items

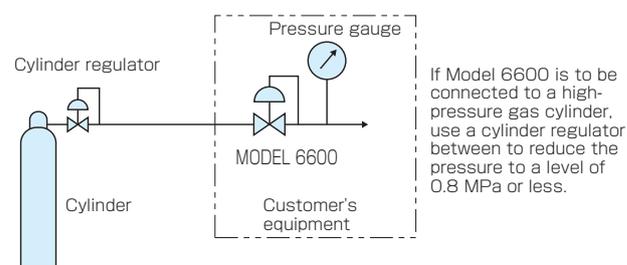
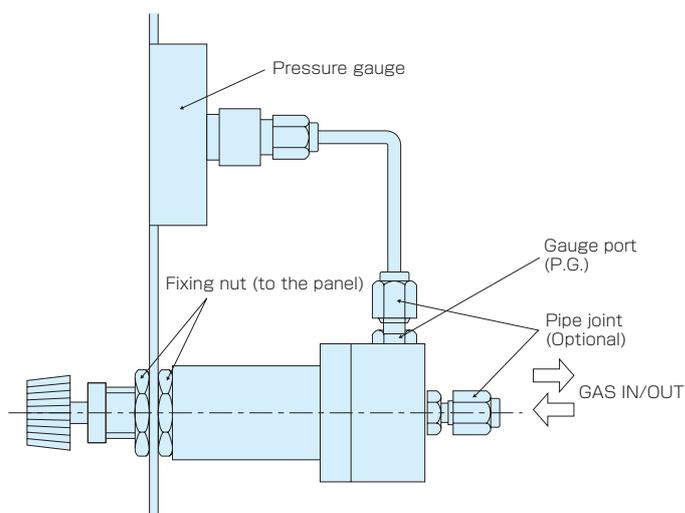
- Set pressure lock nut
- Joints other than the standard ones
- Press fitting of the OUT side filter

Notes:

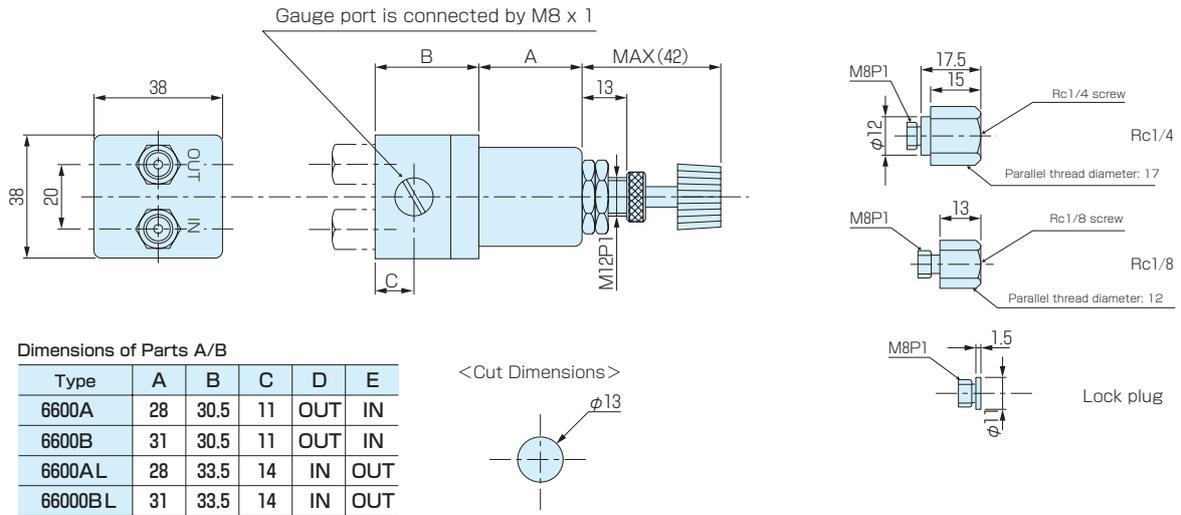
- IN/OUT joints only are optionally available. Lock plug is used for the gauge port.
- Press fitting of the OUT side filter is actually custom-made. Contact us for consultation.
- Pressure gauge port and OUT port are identical. Either will do for pressure gauge port or OUT port.



Layout Example with Model 6600



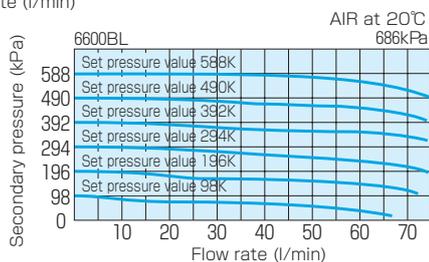
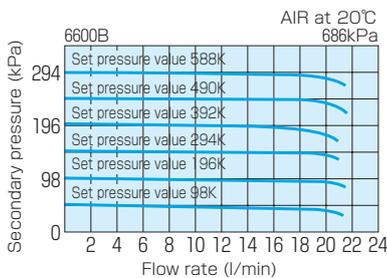
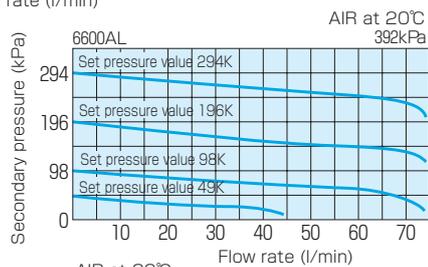
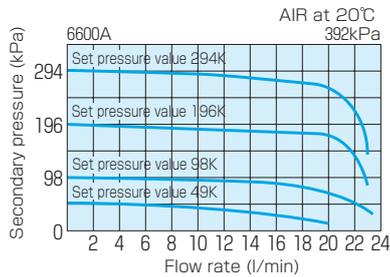
Dimensions



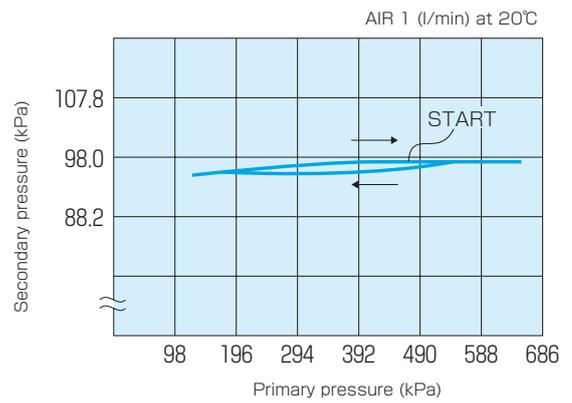
Lineup

Model/Type	Set pressure	Max. flow rate
6600A	9.8-294kPa	10L/MIN
6600B	29.4-588kPa	10L/MIN
6600AL	9.8-294kPa	20L/MIN
6600BL	29.4-588kPa	20L/MIN

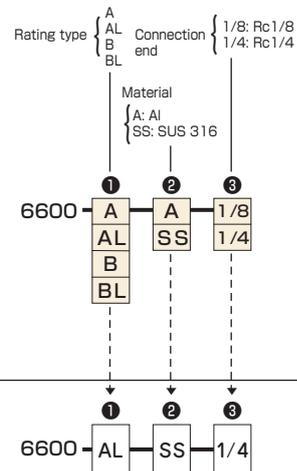
* Note that there may be differences in the range of 80% to 130% between the maximum flow values indicated in this table and those that are actually used by the customer. Please use these values for reference only.



Pressure Characteristic Curve



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.