



For Application to Semiconductor Industry (Medium an Large Flow Type)

XR57·58 Pressure Regulators

OUTLINE

This is a small type pressure regulator for general use, developed for a gas supply system of various semiconductors and a manufacturing apparatus of semiconductor industry.

FEATURES

- This is a low priced pressure regulator complying with gas supply process grade diversification of semiconductor manufacturing industry.
- The materials for regulator itself and gas contacting portion are 316Lst.st., Inconel and Teflon. So, this pressure regulator is appropriate for the applications to a gas of a high degree of purity and corrosive fluid.
- A pressure gauge is installed for the purpose of primary and secondary pressure monitoring.

SPECIFICATION

Fluid:

Various kinds of process gases

Max. applied pressure:

XR57 ••• 20MPa (200kgf/cm²)

XR58 ••• 3MPa (30kgf/cm²)

Pressure adjusting range:

0.03~0.5MPa (0.3~5kgf/cm²)

0.03~1.0MPa (0.3~10kgf/cm²)

Max. flow:

XR57 ••• 150 L/min (normal) For medium flow rate

XR58 ••• 300 L/min (normal) For large flow rate

Pressure gauge : (Only to 3,4 port)

Indication of primary & secondary side (Secondary pressure only for 3-port)

Dial Size ••• 50 DIA.

Primary side

XR57 ••• 25MPa (250kgf/cm²)

XR58 ••• 5MPa (50kgf/cm²)

Secondary ••• -0.1~1.5MPa (-1~15kgf/cm²)

Connection ••• 1/4NPT or 1/4VCR

Gas contact part ••• 316 st.st.

Gas contact part:

Body & Valve 316L st.st.

Diaphragm 316L st.st. +TEFLON

Valve seat XR57 ••• Tef-zel

XR58 ••• Baiton

Valve spring Inconel

Connection:

XR57 ••• 1/4VCR

XR58 ••• 3/8VCR

Operating temperature:

0 ~ 40°C

Storage temperature:

-5 ~ 50°C

Roughness of gas contact part:

Gas contact part are of 2 grades

EP grade ••• 1.0μm Rmax.

BA grade ••• 3.2μm Rmax.

Gas contact part treatment:

Use no oil & water

We are manufacturing not to remain oil or water in gas contact parts.

Leakage (Helium leak rate):

EPgrade•••1.01 × 10⁻¹⁰ Pa • m³/s or less (1 × 10⁻⁹ atm • cc/s or less)

BAgrade•••1.01 × 10⁻⁹ Pa • m³/s or less (1 × 10⁻⁸ atm • cc/s or less)

Weight:

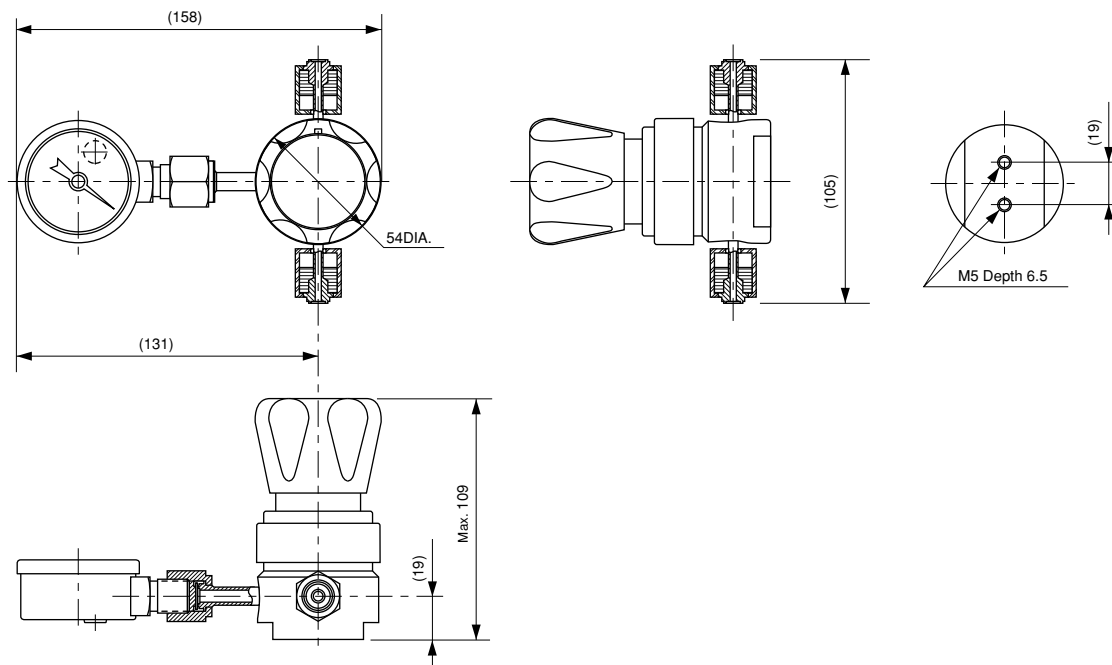
R57 ••• Approx. 1.2kg (With pressure gauges)

R58 ••• Approx. 2.0kg (With pressure gauges)

DIMENSIONS

XR57 Pressure regulator for semiconductor industry (For medium flow rate)

1/4VCR (F) 3port



XR58 Pressure regulator for semiconductor industry (For large flow rate)

3/8VCR (F) 3port

