



For Application to Semiconductor Industry (Compact Type) XR56 Pressure Regulator

OUTLINE

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

FEATURES

- By keeping up the trend of lower expenses and smaller apparatus of gas supply system, this pressure regulator has been especially designed in small size.
- Assembly, adjustment, inspection and packaging are performed in a clean room (class 10000), minimizing the number of particles.
- For monitoring the secondary pressure, pressure gauge installed type is also available as option.

SPECIFICATION

Fluid:

Various kinds of process gases

Max. applied pressure:

2 MPa (20 kgf/cm²)

Pressure adjusting range:

0.01 ~ 0.3 MPa (0.1 ~ 3 kgf/cm²)

0.02 ~ 0.7 MPa (0.2 ~ 7 kgf/cm²)

Max. flow:

20L/min (normal)

Pressure gauge: (Option)

Indication of secondary side

Dial size ••• 50 DIA.

Range •••• 0 ~ 0.5 MPa (0 ~ 5 kgf/cm²)

0 ~ 1MPa (0 ~ 10kgf/cm²)

* Compound gauge is available, contact NKS for details.

Connection ••• 1/4 NPT or 1/4 VCR

Gas contact part (Boulton tube • Socket) ••• 316 st.st

Gas contact part:

Body & Valve 316 st.st.

Diaphragm 316L st.st.

Valve seat CTFE

Valve spring 316 st.st.

Valve guide TFE TEFLON

Connection:

1/4UJR

* VCR fitting, JSK fitting, CVC fitting are available, contact NKS for details.

Operating temperature:

0 ~ 40°C

Storage temperature:

-5 ~ 50°C

Roughness of gas contact part:

BAgrade ••• 3.2 μm Rmax.

* EPgrade (1.0 μm Rmax.) is available.

Leakage (Helium leak rate):

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

Treatment:

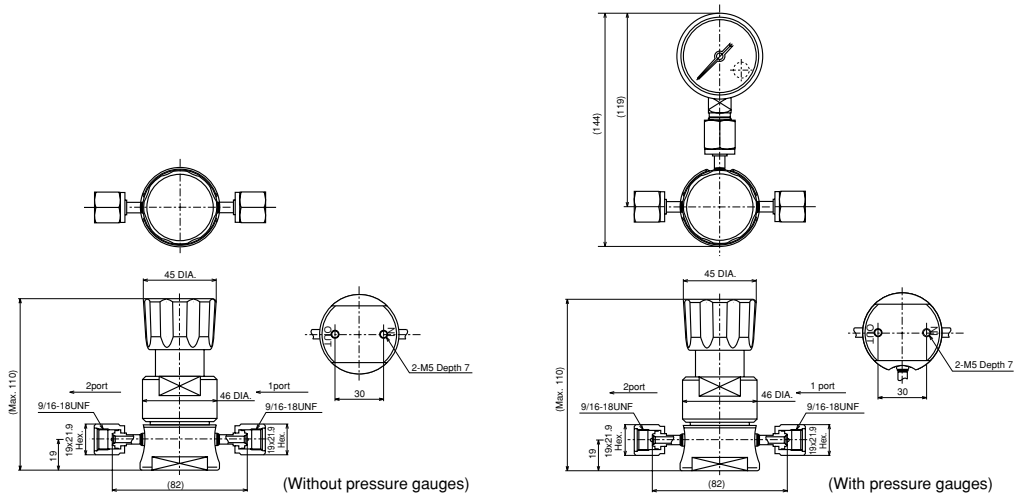
Use no oil & water

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

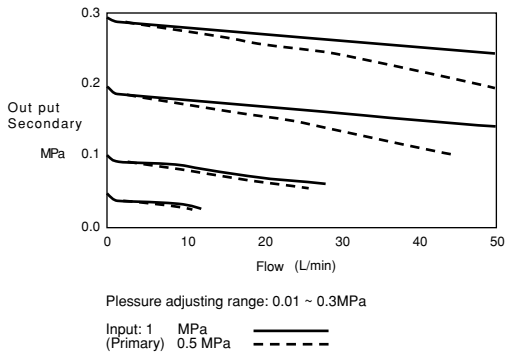
Weight:

Approx.1.1 kg (With pressure gauges)

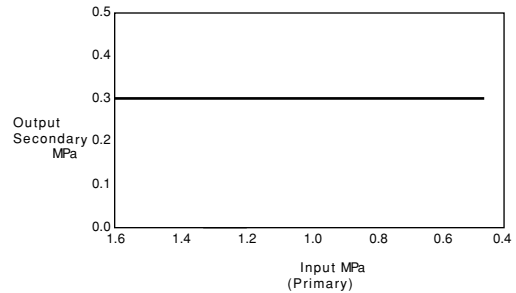
DIMENSIONS



FLOW CHARACTERISTICS



PRESSURE CHARACTERISTICS



Type No. constitution

Please specify Type No., each specification and range, When ordering.

Note: For this Model, there is no applicable item for the figures X, but please specify X when ordering.

Pressure regulator Selection spec. Additional spec. (Option)

X R 5 6 — 1 (X) 2 (X) 3 (X) — 4 (X) 5 (X) 6 (X) 7 (X) 8 () 9 (X) 10 (X) 11 (X) 12 (X) 13 (X) 14 (X) 15 ()

Type No. ————— 8 Other additional spec. ————— 15 Document —————

0	Nil
1	Please specify your requirement. With pressure gauges. (Gas contact part: 316st.st.) EP grade

0	Nil
1	Please specify your requirement. Drawing one sheet, Instruction manual. Inspection procedure, Mill sheet, Test report

The contents in the catalogue are subject to change without notice.

NK NAGANO KEIKI CO., LTD.



UEDA FACTORY (JQA-0794)
MARUKO FACTORY (JQA-0789)

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