

XR55 Pressure Regulator For Semiconductor Industry



OUTLINE

This regulator is developed for the drive system business of various semiconductor production devices in a clean room, and it is of all stainless steel.

FEATURES

- For the devices in a clean room, both the external and the internal surface are electropolished.
- Stainless steel diaphragm is used and its compact body size is only 42mm.
- You can make a compact instrument by using this model.
- For monitoring the secondary pressure, pressure gauge installed type is also available as option.

SPECIFICATION

Fluid:

Various kinds of clean gases

Max.applied pressure:

2 MPa (20 kgf/cm²)

Pressure adjusting range:

0.03 ~ 0.5 MPa (0.3 ~ 5 kgf/cm²)

0.03 ~ 1.0 MPa (0.3 ~ 10 kgf/cm²)

Max.flow:

50L/min (nomal)

Pressure gauge (Only to 3 port):

Indication of secondary side

Dial size *** 50 DIA.

Range 1 MPa (10 kgf/cm²)

Connection *** 1/8 NPT or 1/4 VCR

Operating temperature:

0 ~ 40 °C

Connection:

1/8 NPT (F) or 1/4 VCR (F)

Leakage: (Helium leak rate)

EP grade $2.03 \times 10^{-10} \text{Pa} \cdot \text{m}^3/\text{s}$ or less ($2 \times 10^{-9} \text{atm} \cdot \text{cc/s}$ or less)

BA grade $1.01 \times 10^{-9} \text{Pa} \cdot \text{m}^3/\text{s}$ or less ($2 \times 10^{-8} \text{atm} \cdot \text{cc/s}$ or less)

Roughness of gas contact part:

Gas contact part are of 2 grades

EPgrade *** 2.5 μmRmax .

BAgrade *** 5 μmRmax .

Gas contact part:

Body & Valve: 316L st.st.

Diaphragm: 316L st.st.

Valve seat: Tef-zel

Valve spring: Inconel

O-ring: Baiton

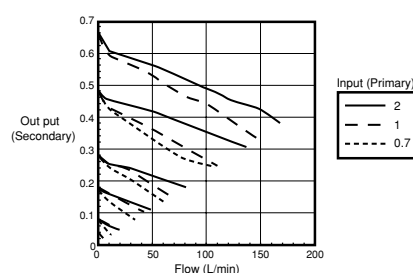
Treatment:

Use no oil & water

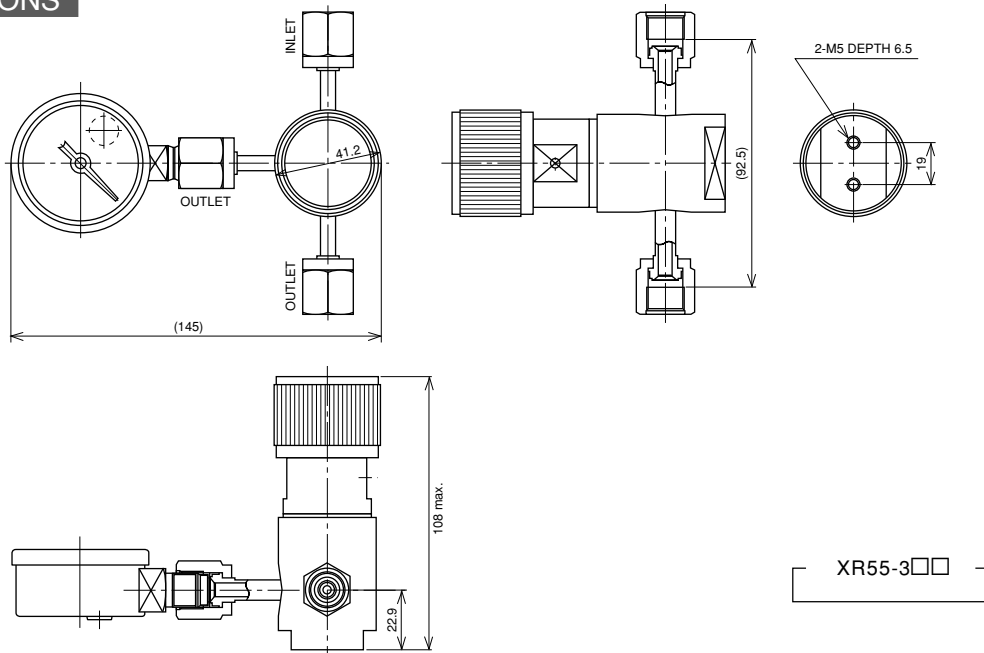
Weight:

Approx. 0.5 kg

FLOW CHARACTERISTICS



DIMENSIONS

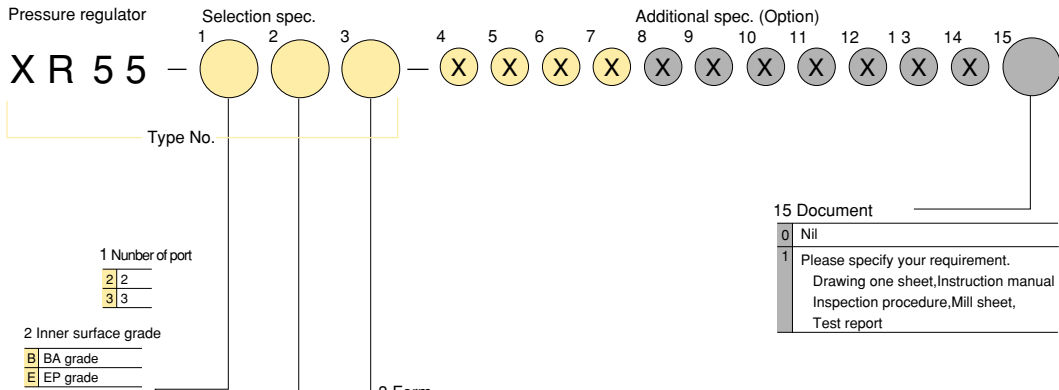


XR55-3□□

Type No. constitution

Please specify Type No.,each spcification and range,when ordering.

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



Configuration	Number of port	Grade		Form	Connection		Output adjusting range
		BA	EP		Ping port	Gauge port	
	2	○	—	U	1/8 NPT (F)	—	1 MPa (10kgf/cm ²)
				V	1/8 NPT (F)	—	0.5MPa (5kgf/cm ²)
	2	○	○	A	1/4 VCR (F)	—	1 MPa (10kgf/cm ²)
				B	1/4 VCR (F)	—	0.5MPa (5kgf/cm ²)
	3	○	—	W	1/8 NPT (F)	1/8 NPT (F)	1 MPa (10kgf/cm ²)
				X	1/8 NPT (F)	1/8 NPT (F)	0.5MPa (5kgf/cm ²)
	3	○	○	E	1/4 VCR (F)	1/4 VCR (F)	1 MPa (10kgf/cm ²)
				F	1/4 VCR (F)	1/4 VCR (F)	0.5MPa (5kgf/cm ²)
	3 (including the port for pressure gauge)	○	—	G	1/4 VCR (F)	1/8 NPT (F)	1 MPa (10kgf/cm ²)
				H	1/4 VCR (F)	1/8 NPT (F)	0.5MPa (5kgf/cm ²)

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

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