

HIGH PURITY GAS REGULATORS FOR GAS CYLINDER

"EXCELLENT MARK II " SERIES



Applications

Instrument Analysis Carrier Gases Semiconductor Manufacturing Gases Poisonous & corrosive gases

■Quality & Grade

Ex-mk II Series are consisted in three grades, such as G1,G2 and G3.

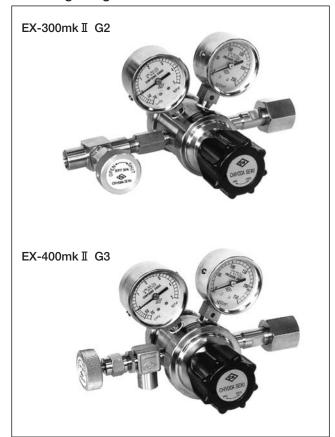
Each grade product is constructed under careful consideration about the construction, materials, cleaning, assembly, performance, inspection and packing.

Grade	G1	G2	G3		
Helium leak rate Connections	≦1×10 ⁻⁸ Acc/sec. 1/4VCR or Tube	≦1×10 ⁻⁷ Acc/sec. Screw in	Compressed He 12hours Screw in		
Cleaning Assembling Material Packaging	Tow-steps ultrasonically cleaning In a Class 1000 Clean room Stainless steel 316 Packed in a polyethylene film under N ₂				

Single Stage Regulators



Two Stage Regulators



■Specifications

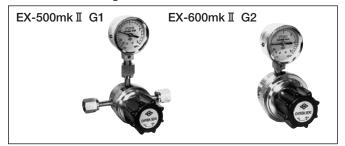
Models		EX-20mk I	EX-100mk II	EX-300mk I	EX-400mk I
Max. Inlet Pressure	(kgf/cm ²)	220	220	220	220
Max. Delivery Pressure	(kgf/cm ²)	10	10	6	6
Normal Flow Rate	(NL/min)	20	100	20	100
Max. Flow Rate	(NL/min)	50	150	30	150
Flow Coefficient (CV=)	, ,	0.05max	0.05max	0.05max	0.05max
Temperature Range	(℃)	-10~60	-10~60	−10~60	-10~60
Dew Point	(℃)	-7 0	-70	-7 0	-70
Helium Leak Rate	(Acc/sec)	≦1×10 ⁻⁸	≦1×10 ⁻⁸	≦1×10 ⁻⁸	≦1×10 ⁻⁸
Weight	(kg)	1.2	1.3	1.9	2.0

HIGH PURITY GAS REGULATORS FOR STATION LINE/HIGH FLOW LINE

"EXCELLENT MARK II " SERIES



■Station line regulators



High flow line regulators



Specifications

Models		EX-500mk II	EX-600mk II	EX-700mk II	EX-1000mk I	EX-4000
Max. Inlet Pressure	(kgf/cm ²)	30	30	20	10	10
Max. Delivery Pressure	(kgf/cm ²)	10	10	10	8	8
Normal Flow Rate	(NL/min)	20	100	3 <mark>00</mark>	1000	4000
Max. Flow Rate	(NL/min)	50	150	450	2000	5000
Flow Coefficient (CV=)		0.17	0.17	0.60	1.75	3.58
Temperature Range	(℃)	-10~60	-10~60	-10~60	−10~60	-10~60
Dew Point	(℃)	—70	-70	-7 0	-70	-70
Helium Leak Rate	(Acc/sec)	≦1×10 ⁻⁸	≦1×10 ⁻⁸	≦1×10 ⁻⁷	≦1×10 ⁻⁶	≦1×10 ⁻⁶
Weight	(kg)	0.9	1.0	3.5	6.0	16

ULTRA HIGH PURITY GAS REGULATORS "EXCELLENT-MEGA" SERIES



EX-M (Excel Mega) Series single stage stainless steel regulators are designed for Instrument Analysis or Semiconductor Manufacturers where high purity must be mainteined. This series regulators are more accuracy than our EX-mk II series and have been founded to have a leakage rate of less than 1×10^{-10} Acc/sec.of helium.

Single Stage Regulators



Pipeline Regulators



Specifications

Models		EX-M-20	EX-M-100	EX-M-500	EX-M-600
Max. Inlet Pressure	(kgf/cm ²)	220	220	30	30
Max. Delivery Pressure	(kgf/cm ²)	10	10	10	10
Normal Flow Rate	(NL/min)	20	100	20	100
Max. Flow Rate	(NL/min)	50	150	50	150
Flow Coefficient (CV=)		0.05	0.05	0.17	0.17
Temperature Range	(℃)	−10~60	−10~60	−10~60	−10~60
Dew Point	(℃)	-74	-74	-74	-74
Helium Leak Rate	(Acc/sec)	≦1×10 ⁻¹⁰	≦1×10 ⁻¹⁰	≦1×10 ⁻¹⁰	≦1×10 ⁻¹⁰
Connections		1/4 VCR or Tube			
Weight	(kg)	1.2	1.3	0.9	1.0
Surface Finish		Electropolished Rm	nax. 0.7 μ m		