

PUREGUARD™

The pure and simple choice

purifiers

PureGuard™ Catalytic Purifiers for Inert Gases & Hydrogen



The Catalytic Purifier series purifies all inert gases and hydrogen using high surface area adsorbant. The compact design offers long lifetimes while delivering gas, helping protect against upsets and insuring that you will always get the purest results. And, these purifiers are regenerable, eliminating disposal issues and driving down the cost of ownership.

The Catalytic Purifier series, together with the Palladium Purifier series and the Getter Purifier series, all are a part of the Pureguard family of purifiers, which offers the End user and OEM a complete palette of gas purification solutions to handle the most demanding of requirements.

Outstanding Performance Standards

Johnson Matthey, a global technology leader for over 40 years in gas purification, presents catalytic purifier technology for inert gases and hydrogen. They are designed to deliver maximum performance removing impurities to less than one part per billion. APIMS tested, these units purify and filter your gas all in one unit while operating at room temperature.

Applications

- Optoelectronics
- MOCVD epi
- Graphic coating processes
- Gas analyzers
- Bulk systems
- Welding
- Process line-purging
- ICP-MS
- SiGe epi
- Atomic Layer Deposition (ALD)



Johnson Matthey
Gas Purification Technology

PureGuard™ Catalytic Purifiers for Inert Gases & Hydrogen

Nitrogen,
Argon,
Helium &
Hydrogen



Model 35XL

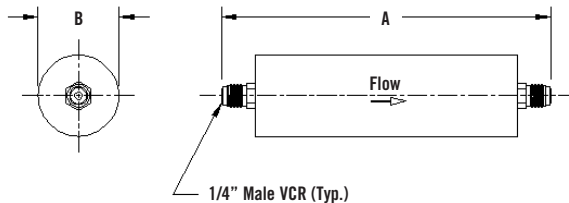


Model 70XL

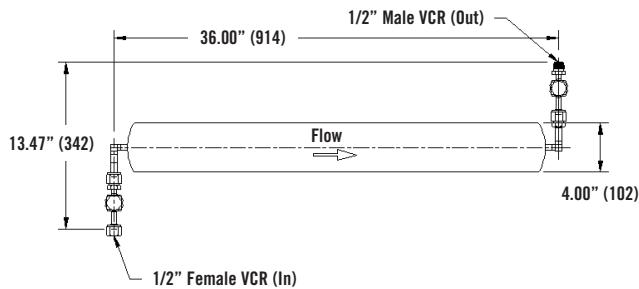
Model Numbers and Dimensions

Model	A inches (mm)	B inches (mm)	Connection Size (MVCR)	Maximum Flow (slpm)
IG-35XL	3.31 (50)	1.5 (38)	1/4"	1
IG-70XL	4.50 (114)	1.5 (38)	1/4"	3
IG-500XL	7.94 (202)	3.0 (76)	1/4"	60
IG-2500XL	17.3 (439)	4.0 (102)	1/4"	300
IG-5000XL	38.52 (978)	4.0 (102)	1/2"	500
IG-10MXL	29.90 (759)	6.0 (152)	1/2"	1000

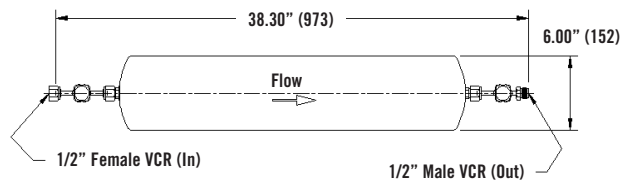
NOTE: For H₂, all part numbers are HIG-XL (example: HIG-35XL)



Catalytic Purifiers Model 5000XL (with valve assembly)



Catalytic Purifiers Model 10MXL (with valve assembly)



Benefits

- Integrated purifier and filter solution
- Extends the life and reliability of gas systems and components
- Enhances sensitivity and performance of analytical equipment
- Protects against breakthrough in bulk gas purifier or impurity spike from liquid storage tanks
- Consistent performance to insure reproducible purity levels
- Manufactured by Johnson Matthey, a global technology leader in business for 190 years and a company that has met your gas purification needs for over 40 years

Specifications

- <1 ppb outlet impurities
- Impurities removed O₂, H₂, H₂O, CO, CO₂ and non-methane hydrocarbons (NMHC)
- Particulate removal: 0.003µm metal filter (optional on 5000XL and 10MXL)
- Maximum operating pressure 250 psig
- <10 ra electropolished material
- 100% orbitally welded design
- Helium leak tested to 1 x 10⁻⁹ atm cc/sec
- Operates at room temperature
- Manual isolation valves standard on IG-5000XL and IG-10MXL (optional on other sizes)
- Regeneration available through Johnson Matthey



Johnson Matthey
Gas Purification Technology

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Principal Locations:
North America, England,
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Japan, Singapore