

HG Series

ARM Purification offers world class ambient operation purifier technology optimized for a wide range of flow rates.

The HG series purifiers are engineered to remove impurities from **hydride gases, such as** SiH_4 , SiH_4/H_2 , Si_2H_6 , AsH_3 , PH_3 , NH_3 , B_2H_6 , H_2S , H_2Se , $\text{H}_2\text{Se}/\text{H}_2$, GeH_4 , GeH_4/H_2 , Ge_2H_6 .



HG Series Media

Fill Material	Gas Purified	Impurities Removed	Outlet Purity	Factory Regenerable	Dangerous Goods	Lifetime of 1 year based on inlet challenge
HG-501	Hydrides	H_2O , O_2 , CO_2	< 1 ppb	no	yes	1 ppm O_2
HG-502	Ammonia	H_2O , O_2 , CO_2 , NMHC	< 1 ppb	yes	yes	1 ppm O_2
HG-508	Hydrides	H_2O	< 1 ppb	no	no	3 ppm H_2O

HG Series Size

Model Number	Standard Fitting*	Diameter Inches	Length Inches	Maximum Pressure Rating (psig)	Nominal Flow Rates (slpm)			Max Flow Rates (slpm)
					HG-501	HG-502	HG-508	
100330	1/4" MVCR (V04)	1.00	3.30	250	0.2	0.3	0.7	1
150330	1/4" MVCR (V04)	1.50	3.30	250	0.4	0.6	1.7	2
150450	1/4" MVCR (V04)	1.50	4.50	250	0.8	1.0	3.5	8.3
150480	1/4" MVCR (V04)	1.50	4.80	250	0.9	1.0	3.9	9.4
150500	1/4" MVCR (V04)	1.50	5.00	250	1.0	1.6	4.2	10
200630	1/4" MVCR (V04)	2.00	6.30	250	2.6	4.0	11.4	30
200820	1/4" MVCR (V04)	2.00	8.20	250	3.9	6.3	16.7	45
200880	1/4" MVCR (V04)	2.00	8.80	250	4.3	6.9	18.3	49
251250	1/4" MVCR (V04)	2.50	12.50	250	11	17	46	100
300790	1/2" MVCR (V08)	3.00	7.90	200	8	13	35	80
300794	1/2" MVCR (V08)	3.00	7.94	200	8	13	35	80
301000	1/2" MVCR (V08)	3.00	10.00	200	11	18	48	105
301820	1/2" MVCR (V08)	3.00	18.20	200	Contact Factory	Contact Factory	Contact Factory	Contact Factory
401730	1/2" MVCR (V08)	4.00	17.30	200	Contact Factory	Contact Factory	Contact Factory	Contact Factory
401760	1/2" MVCR (V08)	4.00	17.60	200	Contact Factory	Contact Factory	Contact Factory	Contact Factory
402000	1/2" MVCR (V08)	4.00	20.00	200	Contact Factory	Contact Factory	Contact Factory	Contact Factory
403090	1/2" MVCR (V08)	4.00	30.90	200	Contact Factory	Contact Factory	Contact Factory	Contact Factory
602760	1/2" MVCR (V08)	6.00	27.60	150	Contact Factory	Contact Factory	Contact Factory	Contact Factory

*Optional fitting sizes may be available; please consult factory.

The HG series is designed for high and ultra high purity applications that require process gas impurity levels of 1 PPB or less.

KEY FEATURES

- 316L stainless filtration media
- 1.5nm outlet filtration
- 316L stainless steel fiber media
- Simple installation
- CE certification available

OPERATING CONDITIONS

- Typical operating temperature range of 0°C–50°C (32°F–122°F)
- Max operating temperature of 50°C (122°F)

ORDERING INFORMATION

Example: Hydride Gas Purifier



Class

HG = Hydride Gas

Fill

See HG Series Media chart for details.

Size

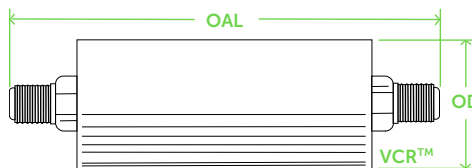
First two digits are the diameter (OD); Last four digits are the length (OAL) in inches.

Fittings

V04=1/4" V12=3/4"
V08=1/2" V16=1"

Filtration

No letter = .1 micron filter
F = 1.5nm filter



DON'T SEE WHAT YOU NEED?

Speak to our team about your requirements and we can work with you to identify the purifier solution best suited for your application.

Place an Order
orders@appliedenergysystems.com

Contact your ARM Purification sales rep or visit armpurification.com/request-quote/



BROUGHT TO YOU BY



www.appliedenergysystems.com

180 Quaker Lane
Malvern, PA 19355 USA
610.647.8744
purification@appliedenergysystems.com
www.armpurification.com
ARM-POU-HCG-Series-112023