

# RG Series

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

The RG series purifiers are engineered to remove impurities from reactive gases, such as  $H_2$ ,  $D_2$ ,  $H_2/Ar$ ,  $H_2/N_2$ ,  $H_2/He$ .



## RG Series Media

Fill Material	Impurities Removed	Outlet Purity	Factory Regenerable	Dangerous Goods	Lifetime of 1 year based on inlet challenge
RG-201	$H_2O$	< 100 ppt	yes	no	3 ppm $H_2O$
RG-203	$H_2O$ , $CO_2$ , NMHC, Acids & Bases, Refractory Compounds	< 100 ppt	yes	no	1 ppm $H_2O$
RG-205	$H_2O$ , $O_2$ , $CO$ , $CO_2$ , NMHC	< 100 ppt	yes	yes	1 ppm $O_2$
RG-206	$H_2O$ , $O_2$ , $CO$ , $CO_2$ , NMHC, Acids & Bases, Refractory Compounds	< 100 ppt	yes	yes	1 ppm $O_2$
RG-215	NMHC, Refractory Compounds, DMF	< 100 ppt	yes	no	1 ppm NMHC (as Toluene)

## RG Series Size

Model Number	Standard Fitting*	Diameter Inches	Length Inches	Maximum Pressure Rating (psig)	Nominal Flow Rates (slpm)					Max Flow Rates (slpm)
	Inches				RG-201	RG-203	RG-205	RG-206	RG-215	
100330	1/4" MVCR (V04)	1.00	3.30	250	0.7	0.7	0.3	0.2	0.8	1
150330	1/4" MVCR (V04)	1.50	3.30	250	1.7	1.8	0.8	0.4	1.9	2
150450	1/4" MVCR (V04)	1.50	4.50	250	3.5	3.7	1.3	0.7	3.9	8.3
150480	1/4" MVCR (V04)	1.50	4.80	250	3.9	4.1	1.8	0.9	4.4	9.4
150500	1/4" MVCR (V04)	1.50	5.00	250	4.2	4.5	2.0	1.0	4.8	10
200630	1/4" MVCR (V04)	2.00	6.30	250	11.4	12.0	5.4	2.7	12.9	30
200820	1/4" MVCR (V04)	2.00	8.20	250	16.7	17.7	7.9	3.9	18.9	45
200880	1/4" MVCR (V04)	2.00	8.80	250	18.3	19.4	8.7	4.3	20.8	49
251250	1/4" MVCR (V04)	2.50	12.50	250	46	49	22	11	52	100
300790	1/2" MVCR (V08)	3.00	7.90	200	35	36	16	8	39	80
300794	1/2" MVCR (V08)	3.00	7.94	200	35	36	16	8	39	80
301000	1/2" MVCR (V08)	3.00	10.00	200	48	50	22	11	54	105
301820	1/2" MVCR (V08)	3.00	18.20	200	102	108	48	24	116	200
401730	1/2" MVCR (V08)	4.00	17.30	200	161	171	81	38	183	500
401760	1/2" MVCR (V08)	4.00	17.60	200	161	171	81	38	183	500
402000	1/2" MVCR (V08)	4.00	20.00	200	193	204	91	45	219	560
403090	1/2" MVCR (V08)	4.00	30.90	200	322	340	196	76	364	600
602760	1/2" MVCR (V08)	6.00	27.60	150	644	681	304	152	729	1000

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

The RG series is designed for high and ultra high purity applications that require process gas impurity levels of 100 PPT 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: Reactive Gas Purifier



**Class**

RG = Reactive Gas

**Fill**

See RG Series Media chart for details.

**Size**

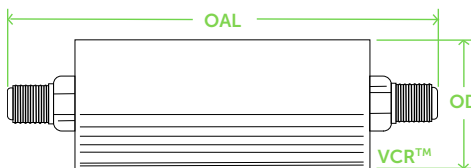
First two digits are the diameter (OD); Last four digits are the length (OAL) in inches.

**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](mailto:orders@appliedenergysystems.com)

Contact your ARM Purification sales rep or visit [armpurification.com/request-quote/](http://armpurification.com/request-quote/)



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