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# HYDROGEN FILTRATION FOR FUEL DISPENSING





# PARKER'S PROVEN FILTRATION SOLUTIONS PROVIDE CRITICAL PROTECTION

Ensuring hydrogen purity at refueling stations is crucial for safe and efficient operation.

Hydrogen used as alternative fuel must be free of contamination to ensure a maximum service life for delicate fuel cell components. Contaminated gas will reduce the performance of a fuel cell vehicle's proton exchange membrane. Adequate protection is essential at the refueling station to ensure longevity of vehicles and mobile equipment.

Fuel standards have become more clearly defined as fuel cell technology progresses in the industry. Often used interchangeably, fuel purity and fuel quality refer to contaminants in gaseous hydrogen. The quality of hydrogen defines contamination, and correlates to the tolerance of a vehicle's fuel system to perform under realistic operating conditions. Proper filtration before hydrogen enters the vehicle's fuel tank will mitigate risk of poor performance or downtime.

Parker Filtration Solutions are carefully engineered to comply with global design standards, provide consistent performance and long-term reliability. Join us in advancing clean technology. Together, we can drive toward a cleaner, more sustainable future.

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Fuel quality specifications are defined by both ISO14687 and SAE J2719 for fuel cell vehicle applications.



Per these standards, contaminants are:

*"Impurities that adversely affect the components within the fuel cell system, the fuel cell power system, or the hydrogen storage system"*

Particulates are specifically defined as:

*"Solids or liquids, such as oil mist, that can be entrained somewhere in the production, delivery, storage, or transfer of the hydrogen fuel to a fuel cell system"*

Filtration installed on the refueling dispenser will act as the last line of defense to provide acceptable fuel quality and protect fuel cell vehicle components from compressor oil carryover. Parker's hydrogen filters will remove fine solids and suspended liquids in the gas by providing high performing coalescing efficiency, high burst strength, and long element life.

# MODELS AND PART NUMBERS

Model	Flow Rates		Pressure Rating		Port Options		Replacement Element Kit Size
	g/s	SCFM	Bar	PSI	Type	Size	
RL0700S06-0□CVN	60	1,518	700	10,152	SAE	SAE-6	RL0□K
RL0700T02-0□CVN	60	1,518	700	10,152	MP Cone & Thread	3/8"	RL0□K
RM0700S06-0□CVN	120	3,036	700	10,152	SAE	SAE-6	RM0□K
RM0700T04-0□CVN	120	3,036	700	10,152	MP Cone & Thread	9/16"	RM0□K
RM1000T04-0□CVN	120	3,036	1000	14,500	MP Cone & Thread	9/16"	RM0□K
RM1000T04-0□PVN	120	3,036	1000	14,500	MP Cone & Thread	9/16"	RM0□K
RH1000T05-0□CVN	300	7,590	1000	14,500	MP Cone & Thread	3/4"	RM0□K
RH1000T05-0□PVN	300	7,590	1000	14,500	MP Cone & Thread	3/4"	RM0□K

## Notes:

- Replace □ with desired media option for complete part number - see table below
- CRN in all provinces
- CE Marking in accordance with the Pressure Equipment Directive 2014/68/EU
- Models ending with "-0 □ CVN" include a plugged 1/4" MP cone & thread drain port
- Models ending with "-0 □ PVN" do not include a drain port

## Ordering Information:

### Replace "□" With Desired Filtration Efficiency

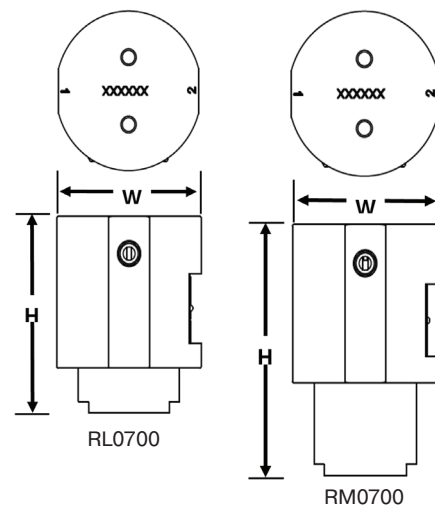
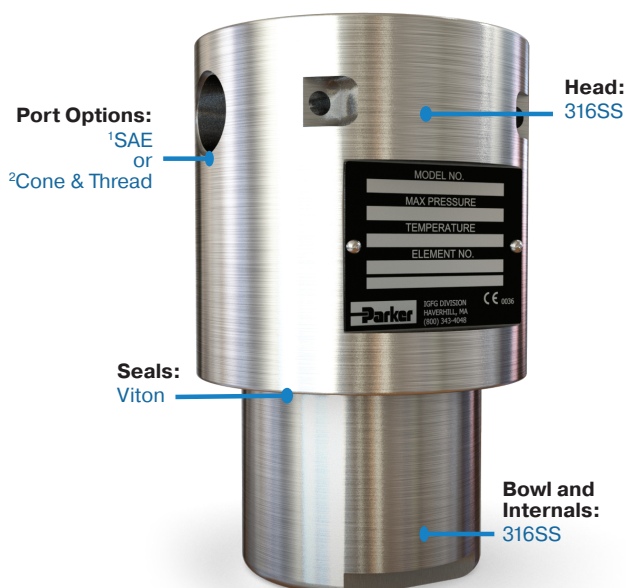
Media Option	Micron Rating	Efficiency Rating	Replacement Element Kit Part Number
1	1 Micron	99%	RL01K
	1 Micron	99%	RM01K
3	0.1 Micron	99%	RL03K
	0.1 Micron	99%	RM03K

## Notes:

- Each kit contains 2 filter elements, 2 sets of o-rings, and lubricant
- Example of complete part numbers: RM0700T04-01CVN and RM01K

## Product Weights & Dimensions

Filter Model	Height		Width		Weight	
	IN	MM	IN	MM	LB	KG
<b>RL0700</b>	4.4	111.8	3.4	86.4	9	4
<b>RM0700</b>	5.4	137.2	3.4	86.4	10	4.5
<b>RM1000</b>	6.3	160	4.6	116.8	20	9.1
<b>RH1000</b>	6.3	160	4.6	116.8	20	9.1



<sup>1</sup>SAE port type is compatible with Parker's Seal-Lok fittings for hydrogen

<sup>2</sup>Cone & Thread port type is compatible with Parker Autoclave Engineers Medium Pressure fittings and tubing  
Fittings not included



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