

## Pressure Actuated Water Regulating Valves

Type **VWR**

### FEATURES

- Water regulating valves are used to control cooling water flow volume by sensing refrigerant pressure in water-cooled condensers.
- 2-way pressure actuated water regulating valves, open on pressure increase.
- Large proportional control range and flow characteristics with excellent controllability.
- Applied standards : UL / cUL



VWR-1504GS



VWR-U2006G

# Pressure Actuated Water Regulating Valves | Type VWR

## SPECIFICATIONS

- Max. Operating Temp. : 140°F [60°C]
- Max. Working Press. : 145psi [1.0MPa] (Water side)  
522psi [3.6MPa] (Refrigerant side)\*<sup>1</sup>
- Material of Body : Bronze\*<sup>2</sup>

\*<sup>1</sup> Models with a maximum working pressure of 609psi [4.2MPa] are also available (Type VWR, Non-UL).

\*<sup>2</sup> Stainless steel types are also available (Non-UL). Please contact us for details.

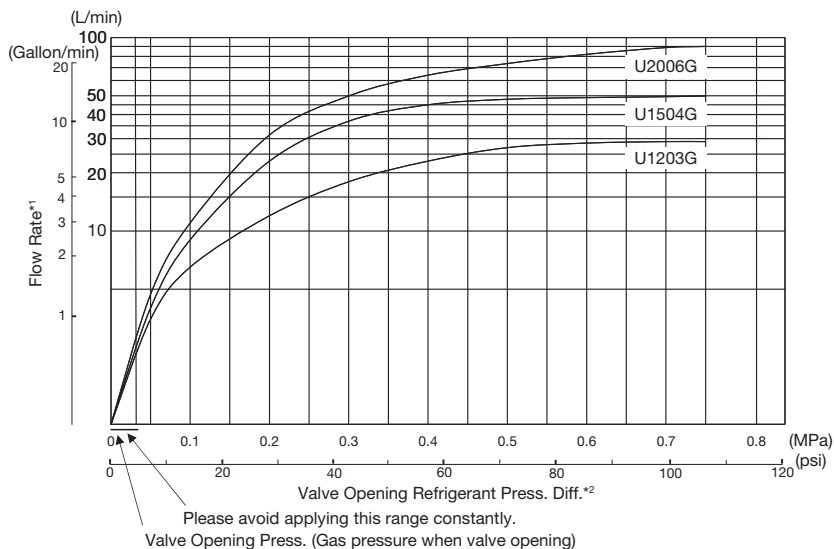
Catalog Number		Connection		Valve Operation	Press. Adjustable Range (psi [MPa])	Factory Setting Press. (psi [MPa])	Weight (lb [kg])
Type	Model	Style	Thread Size				
VWR	U1203G	NPT* <sup>3</sup>	3/8"	Open on pressure increase	145 to 421 [1.0 to 2.9]	348 [2.4]	1.54 [0.7]
	U1504G		1/2"				1.98 [0.9]
	U2006G		3/4"				2.20 [1.0]

\*<sup>3</sup> ISO standard pipe threads Rc and G (Non-UL) and larger connection sizes (Type AWR, Non-UL) are also available, however maximum working pressure for AWR is 284psi [1.96MPa] and 399psi [2.75MPa] depending on the model number.

## FLOW CHARACTERISTICS

The chart below shows the flow characteristics when the water pressure drop across the valve is 15psi [0.1MPa].

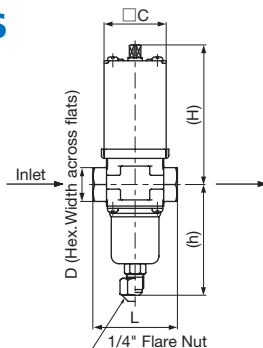
If the water pressure drop is different than 15psi [0.1MPa], multiply the flow rate by the factor in the correction factor table.



\*<sup>1</sup> When the water pressure drop across the valve is 15psi [0.1MPa].

\*<sup>2</sup> Valve Opening Refrigerant Press. Diff. refers to the difference between valve opening press. (setting press.) and actual working press.

## DIMENSIONS



Catalog Number		D	L	H	h	□ C
VWR	U1203G	0.87 [22]	2.17 [55]	3.58 [91]	2.83 [72]	1.57 [40]
	U1504G	1.06 [27]	2.76 [70]	3.94 [100]	3.27 [83]	
	U2006G	1.26 [32]	3.15 [80]	4.09 [104]	3.43 [87]	

Unit: inch [mm]



### NOTES FOR SAFETY

Failure to read and follow all instruction carefully before installing or operating the product could cause personal injury and/or property damage.

Specifications are subject to change without notice.

## EXPLANATION FOR CATALOG NO.

**VWR-U1504G**

I II III IV V

I	Type
II	Standards
III	Port size
IV	Connection size
V	Connection style

## ADJUSTMENT

Amount of change by one full rotation of adjusting screw is shown below. Please refer as a guide when adjusting.

Catalog Number	Change in Press. Setting (psi [MPa] / One full turn)
VWR	Approx. 29 [0.2]

\* Rotate counterclockwise : increase the setting pressure  
Rotate clockwise : decrease the setting pressure

## CORRECTION FACTOR

Allowable Press. Drop Across Valve (psi [MPa])	Coefficient
29 [0.2]	1.4
15 [0.1]	1
10.2 [0.07]	0.8
7.3 [0.05]	0.7
4.4 [0.03]	0.55