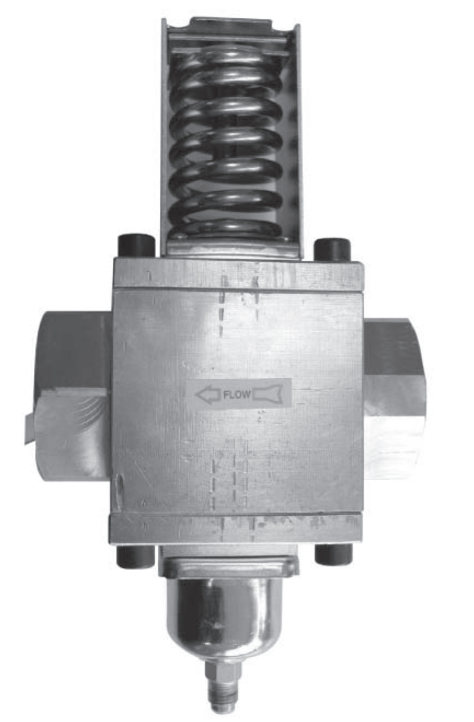
PRESSURE CONTROLLED WATER VALVES PWV SERIES   PWV系列冷凝压力调节阀





■ 介 绍

PWV系列冷凝压力调节阀一般安装在冷凝器的冷却水管路上(通常安装在冷凝器的进水端)，根据冷凝压力的变化来调节冷却水的流量。

当压缩机的冷凝压力升高(即冷凝压力升高)时，阀会自动开大，使较多的冷却水进入冷凝器，加快制冷剂冷凝的速度；反之，当冷凝压力下降时，阀会自动关小，使进入冷凝器的冷却水量减少,从而，使冷凝压力保持在一定的范围内。

PWV冷凝压力调节阀调节方法：调节时可转动'调节螺杆'，顺时针转动，控制压力提高，逆时针转动，控制压力降低。

■ Introduction

PWV series pressure controlled water valves are usually installed on the inlet of condenser, which can regulate the flow of cooling water according to the change of condensing pressure. When condensing pressure of compressor rises, valve is turned up automatically, so more cooling water enters the condenser to accelerate the condensing of refrigerant. Reversely, when condensing pressure of compressor drops, valve is turned down automatically, so cooling water reduces and the condensing pressure is kept within certain range.
Adjust screw rod at clockwise rotation, the control pressure of the valve increases, inversely, the control pressure decreases.

■ 连接尺寸 Connection

型号 Model	冷凝器端 Condenser side	液体端 Liquid side	外形尺寸(mm) Dimension 长度(L) Length	高度(H) Height
PWV3/8、PWV3/8G	6mm (1/4in.)喇叭口 1/4 flare 7/16"-20UNF nut	3/8"喇叭口 3/8" flare	100	170
PWV1/2、PWV1/2G	6mm (1/4in.)喇叭口 1/4 flare 7/16"-20UNF nut	G1/2	84	204
PWV3/4、PWV3/4G	6mm (1/4in.)喇叭口 1/4 flare 7/16"-20UNF nut	G3/4	84	204
PWV1、PWV1G	6mm (1/4in.)喇叭口 1/4 flare 7/16"-20UNF nut	G1	100	220
PWV1-1/4、PWV1-1/4G	6mm (1/4in.)喇叭口 1/4 flare 7/16"-20UNF nut	G1-1/4	130	240
PWV1-1/2、PWV1-1/2G	6mm (1/4in.)喇叭口 1/4 flare 7/16"-20UNF nut	G1-1/2	130	240

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■ 标准型号与参数 Type & data

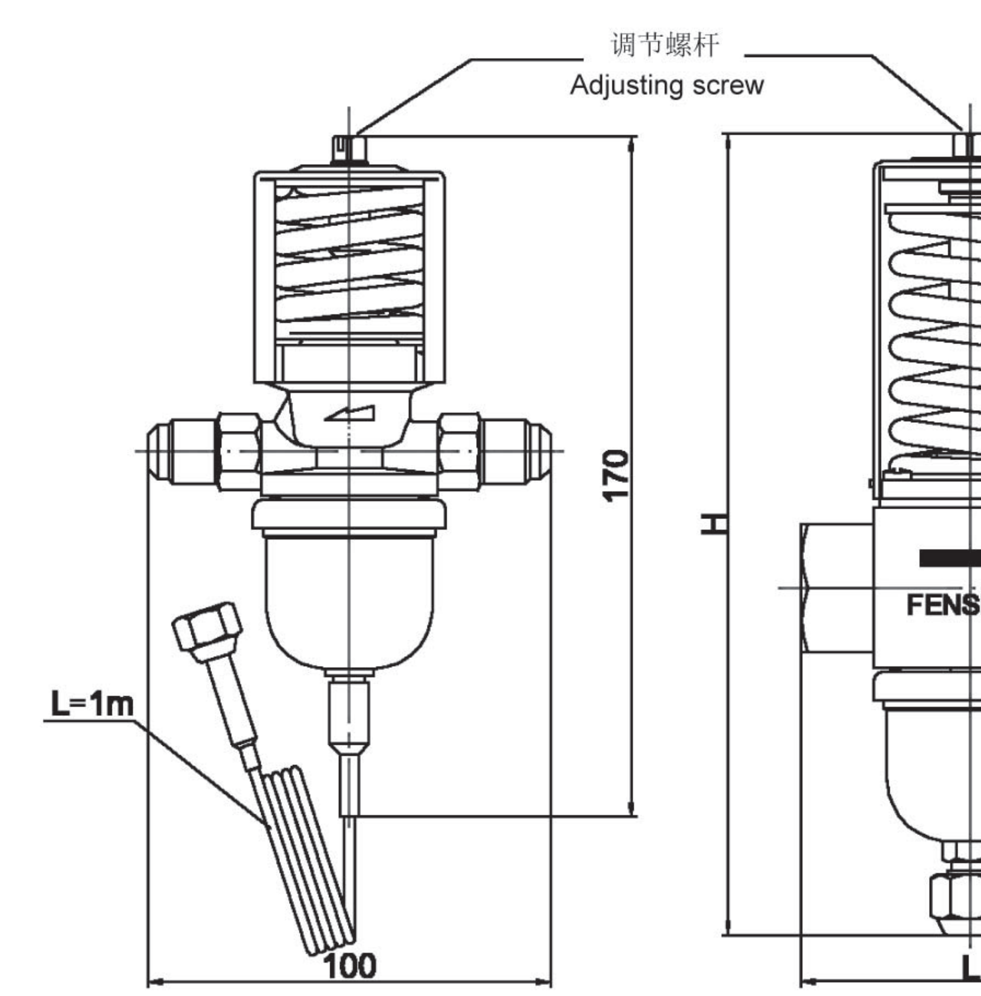
形式 Symbol	型号 Model	冷凝器侧 Condenser side: 制冷剂 Refrigerant	可调关闭压力 Adjusting range (MPa)	最大工作压力 Max. working pressure (MPa)	最大试验压力 Max. testing pressure (MPa)	液体侧 Liquid side: 介质 Medium	最大工作压力 Max. working pressure (MPa)	介质最高温度 Max. medium temp. (℃)	设定开启压力 Factory setting opening pressure (MPa)	Kv值 Kv value m^3/h
低压 Low pressure	PWV3/8	R134a, R22,R407C R404A/507	0.5→1.8	2	2.4	淡水 Fresh water	1	60	0.75	0.8
	PWV1/2									2.5
	PWV3/4									3.2
	PWV1									5.0
高压 High pressure	PWV3/8G		0.7→2.3	2.6	3				2	0.8
	PWV1/2G									2.5
	PWV3/4G									3.2
	PWV1G									5.0
	PWV1-1/4G		0.5→1.6	2.4	2.6				1.4	8.0
	PWV1-1/2G									10.0

Kv 值表示介质通过阀门压差等于 0.1MPa 时的流量，单位为 m^3/h，密度 =1000kg/m^3

Kv value is the flow of water in m^3/h at a pressure drop across valve of 0.1 MPa, ρ = 1000 kg/m^3.

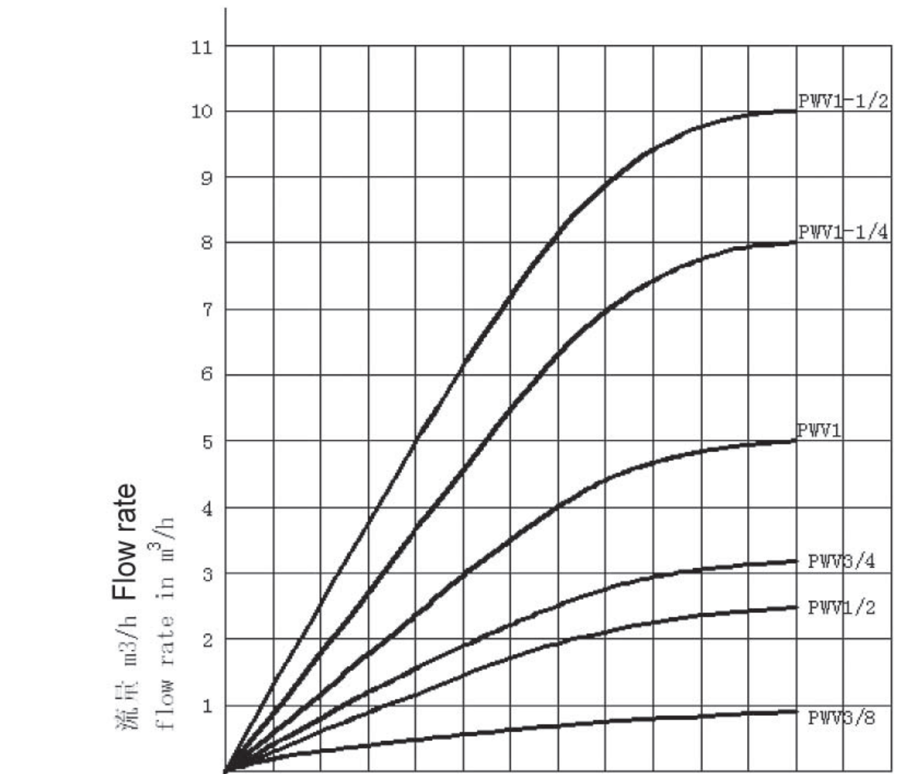
■ 外形尺寸(单位:mm)

Dimension (Unit: mm)



■ 流量曲线图 Flow rate chart

Water pressure drop across valve: 0.1 MPa



Opening presure (Factory setting)

阀开启冷媒压差(MPa)

阀开启冷媒压差表示阀打开时压力(设定值)和实际使用压力之差。

介质:水(H_2O) Medium: water (H_2O)

Valve opening refrigerant pressure (MPa)

Valve opening refrigerant pressure means difference between valve opening pressure (factory setting) and actual working pressure.