PRESSURE ACTUATED WATER REGULATING VALVES

Type CWR, AWR, GWR, MWR & SWR

S/JGInoMIY/J

GENERAL DESCRIPTION

 Type CWR, AWR & MWR: 2-way press. actuated water regulating valves, open on pressure increase.

Type GWR: 2-way press. actuated water regulating

valves, open on pressure decrease.

Type SWR: 3-way press. actuated water regulating

valves.

- Pressure connection: 1/4" flare nut (Standard)
- · Body material: Bronze for water and glycol, cast iron for water only





Type SWR

TYPE NUMBER SELECTION (SPECIFICATIONS)

PRESSURE ACTUATED VALVES 2-WAY

Unit: MPa {kgf/cm²}

Car	talog No.	Kind of	Valve Body	Conn	ection	Press.	Max. Working	Max. Water Temp.	Max. Water	* Factory	Wt.
Ga	lalog No.	Refrigerant	Material	Size	Style	Range	Press.	(°C)	Press.	Setting	(kg)
CWR-	803GLWQ1			3/8"	Rc	0.6 to 1.8 {6.0 to 18.0}	2 {20}		1 {10}	0.75 {7.5}	0.45
AWR-	1204BLW			1/2"	Flare	0.78 to 1.77 {8.0 to 18.0}				0.88 {9}	0.8
AVVn-	1203GLW			3/8"							0.66
	1504GLW		Bronze	1/2"							0.8
	2006GLW		3/4"	Rc	0.59 to 1.77				0.74	1.0	
	2510GLW			1"		{6.0 to 18.0}		60	0.98 {10}	{7.5}	1.8
	3212GLW			1-1/4"							2.1
AWR- GWR-	4014FLW		Cast Iron	1-1/2"	Flange						11.2
	5020FLWR	Fluorinated		2"		R: 0.59 to 1.18 {6.0 to 12.0} H: 1.08 to 1.77 {11.0 to 18.0}				R: 0.74 {7.5}	17.8
	5020FLWH	Refrigerants		2							17.0
	6524FLWR	1		2-1/2"			(= -,			H: 1.23	21.6
	6524FLWH			2-1/2					{12.5}	21.0	
	4014FLW		Bronze	1–1/2"		0.59 to 1.77 {6.0 to 18.0}				0.74 {7.5}	11.2
MWR-	5020FLWR			2"		R: 0.59 to 1.18				R: 0.74	17.8
IVIVVK-	5020FLWH			2"		{6.0 to 12.0}				{7.5}	17.0
	6524FLWR			2-1/2"]	H: 1.08 to 1.77				H: 1.23	21.6
	6524FLWH			2-1/2		{11.0 to 18.0}				{12.5}	21.0

^{*} Pressure at which valve starts opening.

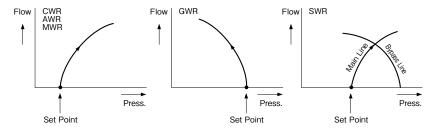
PRESSURE ACTUATED VALVES 3-WAY

PRESSURE ACTUATED VALVES 3-WAY Unit: MPa {k}							kgf/cm ² }					
	Cat	talog No.	Kind of	Valve Bodv	Connection		Press.	Max. Working	Max. Water Temp.	Max. Water	* Factory	Wt.
	- Oai	lalog No.	Refrigerant	Material	Size	Style	Range	Press.	(°C)	Press.	Setting	(kg)
		1504GLW			1/2"		0.59 to 1.77 {6 to 18}	1.96 {20}	60	0.98 {10}	0.74 {7.5}	1.1
sw	/D_	2006GLW	Fluorinated Refrigerants	Bronze	3/4"	- Rc						1.5
344	/n-	2510GLW			1"							2.5
		3212GLW			1–1/4"							3.0

^{*} Pressure at which main valve starts opening.

VALVE ACTION

Set Point is pressure for valve opening. Each cheractaristic of valves is different as follows.



ADJUSTMENT

One full turn of adjusting screw changes pressure

setting as snown below.							
Cata	alog No.	Change in Press. Setting					
AWR-	1204BLW						
AWN-	1203GLW	Approx 0.1MDs					
	1504GLW	Approx. 0.1MPa					
AWR- GWR-	2006GLW						
SWR-	2510GLW						
	3212GLW	Approx. 0.075MPa					
AWR-	4014FLW						
MWR-	5020FLW	Approx. 0.09MPa					
GWR-	6524FLW	Арргох. 0.09МРа					

[·] AWR, GWR & MWR with flange connection are supplied with JIS 10K (0.98 MPa) round companion flanges (JIS B2220 2239) and bolts/nuts.

[·] Pressure range: Main line opening point

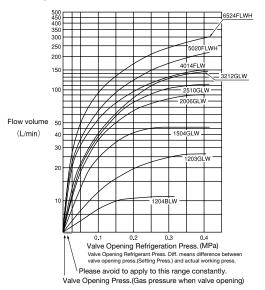
FLOW CAPACITY

Flow Capacity shows respectively refrigeration press. diff. at horizontal axis and flow rate of cooling water at vertical axis considering water press. diff. before and behind a valve with 0.1 MPa. (press. diff. between inlet and outlet of valve)

In case of water press. diff. before and behind a valve is excepting for 0.1MPa, value is calculated multipling by coefficient in compensation table.

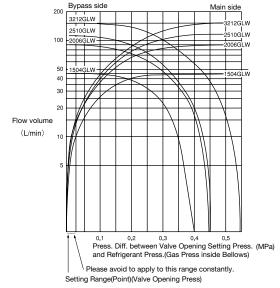
Type AWR, MWR, GWR

water pressure difference before and behind a valve: 0.1MPa



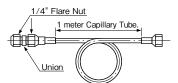
Type SWR

water pressure difference before and behind a valve: 0.1MPa



ACCESSORY

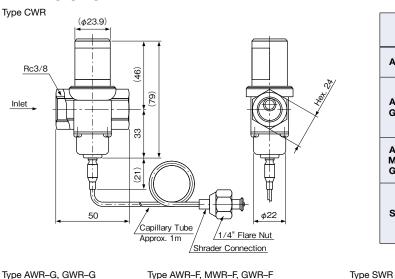
 Pressure dampening capillary tube assembly only attached for AWR-50, -65, MWR-50 and -65.
 Please use these for safty.



COMPENSATION COEFFICIENTS

Press. Drop Across Valve: MPa {kgf/cm²}	Coefficient			
0.2 {2}	1.4			
0.1 {1}	1			
0.03 {0.3}	0.55			
0.05 {0.5}	0.7			
0.07 {0.7}	0.8			

DIMENSIONS



		mm	Catalog No.							
С	h1	h	Н	L	D	log No.	Gala			
40		70	90	100	_	1204BLW	AWR-			
+0		72	91	55	22	1203GLW	AVVn-			
42		83	100	70	27	1504GLW				
+2		87	104	80	32	AWR- 2006GLW				
	_	97	116	90	40	2510GLW	GWR-			
59		102	121	100	50	3212GLW				
		105	125	148	_	4014FLW	AWR-			
89		155	100	173		5020FLW	MWR-			
วย		155	100	179		6524FLW	GWR-			
42	83	31	100	70	27	1504GLW		1504GLW	1504GLW 27	
+2	87	39	104	80	32	2006GLW	SWD_			
59	97	44	116	90	40	2510GLW	SWN-			
פנ	102	54	121	100	50	3212GLW				
	87 97	105 155 31 39 44	125 180 100 104 116	148 173 179 70 80 90	- 27 32 40	4014FLW 5020FLW 6524FLW 1504GLW 2006GLW 2510GLW				

