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}

Catalog No.		Kind of	Valve Body	Connection		Press.	Max. Working	Max. Water Temp.	Max. Water	* Factory	Wt.
Ca	talog 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		Bronze	1/2"	Flare	0.78 to 1.77 {8.0 to 18.0}	1.96 {20}	60	0.98 {10}	0.88 {9}	0.8
AVVn-	1203GLW			3/8"	Rc					0.74 {7.5}	0.66
	1504GLW			1/2"							0.8
	2006GLW			3/4"		0.59 to 1.77 {6.0 to 18.0}					1.0
	2510GLW			1"							1.8
	3212GLW			1-1/4"							2.1
AWR-	4014FLW			1-1/2"	Flange						11.2
	5020FLWR	Fluorinated	Cast Iron	2"		R: 0.59 to 1.18				R: 0.74	17.8
	5020FLWH	Refrigerants				{6.0 to 12.0} H: 1.08 to 1.77 {11.0 to 18.0}				{7.5}	17.0
	6524FLWR			0.1/0"						H: 1.23	01.6
	6524FLWH			2–1/2"						{12.5}	21.6
	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 {6.0 to 12.0} H: 1.08 to 1.77				R: 0.74	17.8
IVIVVK-	5020FLWH			~						{7.5}	17.0
	6524FLWR			2-1/2"						H: 1.23	21.6
	6524FLWH			2-1/2		{11.0 to 18.0}				{12.5}	21.0

^{*} Pressure at which valve starts opening.

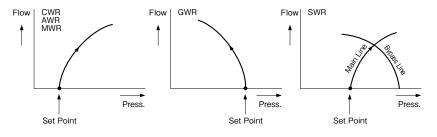
PRESSURE ACTUATED VALVES 3-WAY

PRESSURE ACTUATED VALVES 3-WAY Unit: MPa {kgf/cm²}												
	Cot	alog No.	Kind of Refrigerant	Valve Body Material	Connection		Press.	Max. Working	Max. Water Temp.	Max. Water	* Factory	Wt.
	Cal	laiog No.			Size	Style	Range	Press.	(°C)	Press.	Setting	(kg)
		1504GLW	Fluorinated Refrigerants	Bronze	1/2"	- - Rc	0.59 to 1.77 {6 to 18}	1.96 {20}	60	0.98 {10}	0.74 {7.5}	1.1
	SWR-	2006GLW			3/4"							1.5
	SWN-	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	Approx 0.1MDs					
AVVN-	1203GLW						
	1504GLW	Approx. 0.1MPa					
AWR-	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

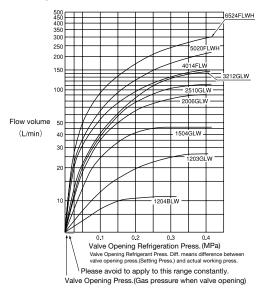
FLOW CAPACITY

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.

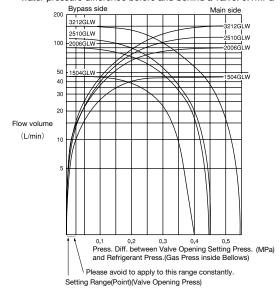
Type AWR, MWR, GWR

water pressure difference before and behind a valve: 0.1MPa



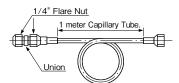
Type SWR

water pressure difference before and behind a valve: 0.1MPa



ACCESSORY

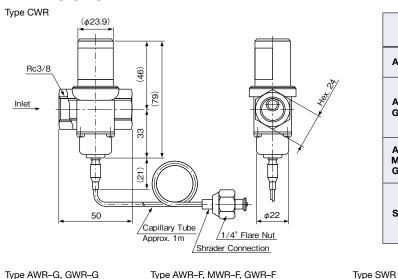
 Pressure dampening capillary tube assembly only attached for AWR-50, -65, MWR-50 and -65.
 Please use these for safty.



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



Coto	Catalog No.		Unit: mm						
Cala			L	Н	h	h1	□С		
AWR-	1204BLW		100	90	70		40		
AWN-	1203GLW	22	55	91	72		40		
	1504GLW	27	70	100	83		42		
AWR-	2006GLW	32	80	104	87				
GWR-	2510GLW	40	90	116	97	_	59		
	3212GLW	50	100	121	102				
AWR-	4014FLW	_	148	125	105				
MWR-	5020FLW		173	180	155		89		
GWR-	6524FLW		179				09		
	1504GLW	27	70	100	31	83	42		
SWR-	2006GLW	32	80	104	39	87	42		
SWN-	2510GLW	40	90	116	44	97	59		
	3212GLW	50	100	121	54	102			

