PRESSURE ACTUATED WATER REGULATING VALVES

Type CWR, AWR, GWR, MWR & SWR

5/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 brine, 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 Material	Connection		Press.	Max. Working	Max. Water	Max. Water	* Factory	Wt.
		Refrigerant		Size	Style	Range	Press.	Temp. (°C)	Press.	Setting	(kg)
CWR-	803GLWQ1			3/8"	Rc	0.6 to 1.8 {6.0 to 18.0}	2 {20}	60	1 {10}	0.75 {7.5}	0.45
AWR-	1204BLW		Bronze	1/2"	Flare				0.98 {10}	0.88 {9}	0.8
AWII-	1203GLW			3/8"		0.59 to 1.77 {6.0 to 18.0}				0.74 {7.5}	0.66
	1504GLW			1/2"	Rc						0.8
	2006GLW			3/4"							1.0
	2510GLW			1"							1.8
A11/2	3212GLW			1-1/4"							2.1
AWR- GWR-	4014FLW		Cast Iron	1-1/2"							11.2
• • • • • • • • • • • • • • • • • • • •	5020FLWR	Fluorinated		2"	Flange	R: 0.59 to 1.18	1.96 {20}			R: 0.74	17.8
	5020FLWH	Refrigerants				{6.0 to 12.0}				{7.5}	17.0
	6524FLWR			2-1/2"		H: 1.08 to 1.77	(=0)			H: 1.23	21.6
	6524FLWH					{11.0 to 18.0}				{12.5}	21.0
	4014FLW			1-1/2"		0.59 to 1.18 {6.0 to 12.0}				0.74 {7.5}	11.2
MWR-	5020FLWR		Bronze	2"		R: 0.59 to 1.18				R: 0.74	17.8
IVI VV III—	5020FLWH		Bronze	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

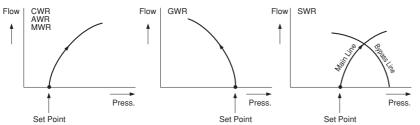
Unit: MPa {kgf/cm²}

								[9., 0]				
	Catalog No.			Valve Body	Connection		Press.	Max. Working	Max. Water	Max. Water	* Factory	Wt.
	08	ratalog 140.	Refrigerant	Material	Size	Style	Range	Press.	Temp. (°C)	Press.	Setting	(kg)
		1504GLW		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	Fluorinated		3/4"							1.5
	SWN-	2510GLW	Refrigerants		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 shown below.

setting as snown below.							
Catal	og No.	Change in Press. Setting					
AWR-	1204 BLW						
AWN-	1203 GLW	Approx. 0.1MPa					
	1504 GLW	Арргох. О. Пинга					
AWR- GWR-	2006 GLW						
SWR-	2510 GLW						
	3212 GLW	Approx. 0.075MPa					
AWR-	4014 FLW						
MWR-	5020 FLW	Approx. 0.09MPa					
GWR-	6524 FLW	Approx. 0.09MFa					

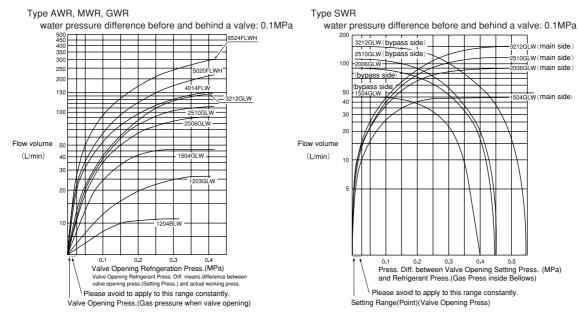
[•] AWR, GWR & MWR with flange connection are supplied with JIS 10K (0.98 MPa) round companion flanges (JIS B2220 2239) and bolts/nuts.

[·] Pressure range: Main line opening point

FLOW CAPACITY

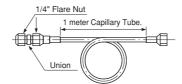
Flow Capacity shows respectively refrigeration press. diff. at horizontal axis and flow rate of cooling water at vertical axis considering water press. diff. before and behind a valve with 0.1 MPa. (press. diff. between inlet and outlet of valve)

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.



ACCESSORY

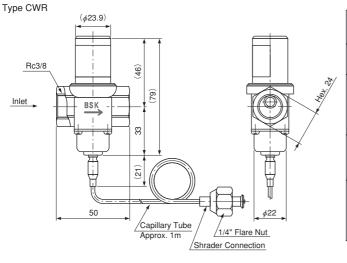
 Pressure dampening capillary tube assembly only attached for AWR-50, -65, MWR-50 and -65.
Please use these for safty.



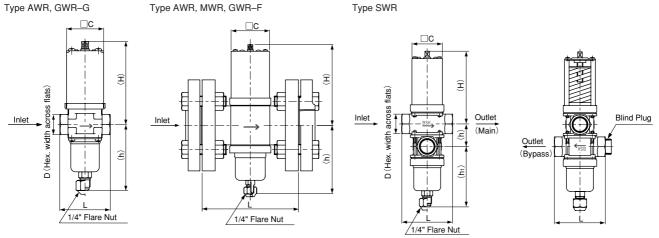
COMPENSATION COEFFICIENTS

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



Catalog No.		Unit: mm							
Oalait	D	L	Н	h	h ₁	□с			
AWR-	1204BLW	_	100	90	70		40		
AWII-	1203GLW	22	55	91	72				
	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						
	1504GLW	27	70	100	31	83	42		
SWR-	2006GLW	32	80	104	39	87			
JWN-	2510GLW	40	90	116	44	97	59		
	3212GLW	50	100	121	54	102	39		



Unit: mm