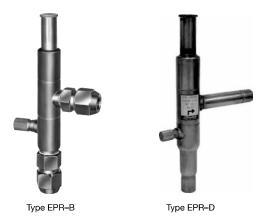
PRESSURE REGULATING VALVES

Type EPR S/JGInoMIY/J

GENERAL DESCRIPTION

- Evaporating pressure regulating valves
- Direct operated, 2-way valves designed for maintaining suitable evaporating pressure in refrigeration. Fitted at the evaporator outlet to keep suitable set evaporating pressure.



SPECIFICATIONS

Operation Specifications	Direct Operation type				
Max. Working Pressure	2.5MPa {25kgf/cm²}				
Airtight Test Pressure	3MPa {30kgf/cm²}				
Fulid Temp.	to 100°C				
Pressure Adjustment	○ Increase 1604 to 05: 0.08MPa {Approx.0.82kgf/cm²} /rotation 1905 to 07: 0.05MPa {Approx.0.51kgf/cm²} /rotation				

TYPE NUMBER SELECTION

Catalog No.		Equalization	Port size	Nominal Capacity (U.S.R.T.) {kW}				Adjusting Range	Connection		Factory Setting	Wt.
				CT 38°C ⊿P0.074MPa {0.75kgf/cm²} ET 5°C								
Туре	Model	Equalization	(mm)	R22	R134a	R404A	R407C	(MPa) {kgf/cm²}	Style	Copper Tube (O.D.)	(MPa) {kgf/cm²}	(kg)
EPR-	1604B	Internal	15	2.6 {9.1}	1.5 {5.3}	1.9 {6.7}	2.0 {6.9}	0 to 0.6 {0 to 6}	Flare	1/2"	- 0,3 - {3}	0.3
	1605B									5/8"		
	1905B		20	5.5 {19}	3.5 {12}	4.1 {14}	5.4 {19}					0,5
	1906B									3/4"		0.5
	1604D		15	2.6 {9.1}	1.5 {5.3}	1.9 {6.7}	2.0 {6.9}		Solder	12.7		0.2
	1605D									15.88		0.2
	1905D		20	5.5 {19}	3.5 {12}	4.1 {14}	5.4 {19}					
	1906D									19.05		0.4
	1907D									22.23		

[•] Nominal capacity is based on condensing temp. 38°C, evaporating temp. 5°C, pressure drop across the valve 0.074 MPa {0.75kgf/cm²}, and Set Pressure R134a...0.1MPa {1kgf/cm²}, R22, R407C...0.2MPa {2kgf/cm²}, R404A...0.3MPa {3kgf/cm²}

APPLICATION EXAMPLE

• Evaporating pressure regulating valve type EPR

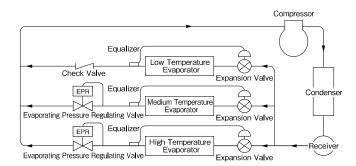
Fitted at the evaporator outlet to keep suitable set evaporating pressure.

At multi evaporator system, evaporating pressure regulating valves are used to control each different pressure (temperature) of evaporators.

Compressor operates based on the lowest pressure (temperature) of evaporators, pressure regulating valves keep pressure (temperature) of each evaporator at their setting pressure.

In this case, a check valve is required at the outlet of lowest pressure evaporator.

Also, evaporating pressure regulating valve is used at water chiller for prevent form congelation of cool water and vegetable warehouse for prevents form over dehumidification.



DIMENSIONS

Type EPR-D

Type EPR-D

Type EPR-D

Direct Operation Type

Catalo	og No.			
Type	Model	L	Н	h
	1604B	45	82	91
	1605B	53	02	94
	1905B	56	109	100
	1906B	60	109	105
EPR-	1604D	71	82	78
	1605D	/ '	02	
	1905D			120
	1906D	100	109	
	1907D			