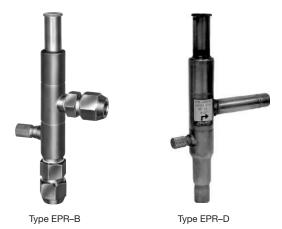
PRESSURE REGULATING VALVES

Type EPR S/JGInoMIY/J

GENERAL DESCRIPTION

 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. | | | | Nominal Capacity (U.S.R.T.) {kW} CT 38°C ∠P0.074MPa {0.75kgf/cm²} ET 5°C | | | | Adjusting | Connection | | Factory | NA (1 |
|-------------|-------|----------------|-------------------|--|-----------|-----------|-----------|-----------------------------|------------|--------------------------|-------------------------------|-------------|
| Туре | Model | - Equalization | Port size (mm) | R22 | R134a | R404A | R407C | Range (MPa) {kgf/cm²} | Style | Copper Tube (O.D.) | Setting (MPa) {kgf/cm²} | Wt. (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" | | |
| | 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

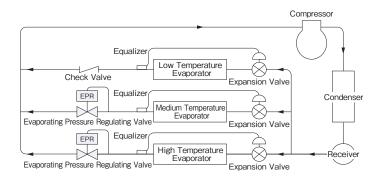
• Evaporating pressure regulating valve type EPR

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

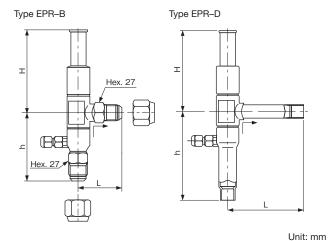
Compressor operates based on the lowest pressure (temperature) of evaporators, pressure regulating valves keep pressure (temperature) of each evaporator at their setting pressure.

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



| Catalo | og No. | | Unit: mm | | |
|--------|--------|----------|----------|-----|--|
| Type | Model | L | Н | h | |
| | 1604B | 45 | 109 | 91 | |
| | 1605B | 53 | | 94 | |
| | 1905B | 1905B 56 | 100 | 100 | |
| EPR- | 1906B | 60 | 109 | 105 | |
| | 1604D | 71 | 82 | 78 | |
| | 1605D | / 1 | 02 | 70 | |
| | 1905D | | | | |
| | 1906D | 100 | 109 | 120 | |
| | 1907D | | | | |