

EXPANSION VALVES

High Volume OEM Item

Type AEX

SAGINOMIYA

GENERAL DESCRIPTION

- This product demonstrates excellent performance over a wide range of evaporation temperature.
- The AEX-Z type adopts a bellows seal mechanism and performs stable control even at extremely low temperatures.
- Application: Refrigerator, Freezer, Extreme low temperature warehouse and Refrigeration equipment for Ships.

SPECIFICATIONS

- Max. working pressure: 1.4MPa {14 kgf/cm²}
- Airtight test pressure: 1.6MPa{16 kgf/cm²}
- Body and sensing bulb Max. temperature: 80°C
- Adjustable range of static superheat: 0 ~ 20°C
○ Increase about 0.05 MPa / rotation



Type AEX



Type AEX-Z

VALVE NOMENCLATURE

Catalog No. is decided according to the specifications.

Example: $\frac{\text{AEX}}{\text{I}} - \frac{2333}{\text{II}} \frac{\text{B}}{\text{III}} \frac{\text{H}}{\text{IV}} \frac{\text{Z}}{\text{V}}$

I : Type..... AEX—Thermostatic expansion valve for general use. (Internal equalizer type.)

II: Model..... The first and the second digits indicate inlet and outlet pipe size respectively.
The last two digits indicate nominal capacity.

III: Connection..... B—Flare Nut Connection

IV: Refrigerant..... H = R22, M=R134a, C=R23, U=R404A

V: Temperature class..... no representation = standard type, Z = Extreme Low Temperature type

Charge	Refrigerant	Temperature class	Evaporating Temp. (°C)	MOP (°C)	Temp. Condition
					Power Element Temp.: Ts Sensing Bulb Temp.: Tb
G	R22	standard	10~-40	13	Ts>Tb
	R134a		10~-30		
	R404A		10~-40		
	R22	Extreme Low Temperature	10~-70	-60	
	R23		-70~-100		
	R404A		10~-70		

G: Gas charge Type

TYPE NUMBER SELECTION (SPECIFICATIONS)

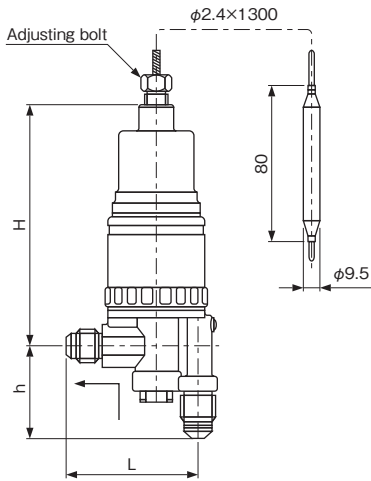
Catalog No.				Capacity (U.S.R.T.) {kW}				Connection		Wt. (kg)
Type	Model	Connection	Refrigerant	R22	R23	R134a	R404A	Inlet	Outlet	
AEX-	2333B	H (R22) M (R134a) C (R23) U (R404A)	No representation (standard) Z (Extreme Low Temperature)	0.50 {1.76}	Production possible	0.36 {1.27}	0.34 {1.20}	1/4"(3/8") Flare	3/8" Flare	0.95
	2335B			0.95 {3.34}		0.72 {2.53}	0.68 {2.39}			
	2345B			1.40 {4.92}		1.10 {3.87}	1.05 {3.69}		1/2" Flare	1.15
	2348B			1.90 {6.68}		1.50 {5.28}	1.40 {4.92}			
	2341B			3.70 {13.0}		2.60 {9.14}	2.50 {8.79}	3/8"(1/4") Flare	3/8" Flare	1.30
	2342B			6.0 {21.1}		4.41 {15.5}	4.21 {14.8}	5/8"(1/2") Flare	3/4" Flare	1.55
	2344B			9.61 {33.8}		7.20 {25.3}	6.0 {21.1}			
	3454B			12.8 {45.0}		9.58 {33.7}	8.39 {29.5}			
	4564B									
	4566B									
4568B										

• Capacity: Based on condensing temp. 38°C and evaporating temp. -5°C.

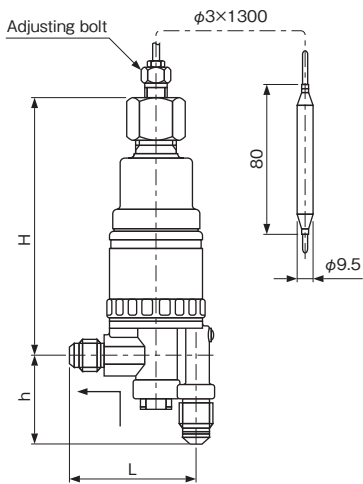
• If you need connection sizes in (), please specify first.

• H dimension of Z type is about 24 mm larger.

DIMENSIONS



Type AEX



Type AEX-Z

Unit: mm

Catalog No.				L	H	h	
Type	Model	Refrigerant	Evaporating Temp.				
AEX-	2333B	H (R22)	No representation (standard)	70.5	132	47 (46)	
	2335B						
	2345B						
	2348B	M (R134a)		73.5	46(47)		
	2341B						
	2342B	C (R23)		81	133	48(49)	
	2344B			84.5	135	52	
	3454B			U (R404A)	90.5	136	56.5 (55.5)
	4564B						
	4566B						
4568B							