

EXPANSION VALVES

Type WHX

SAGINOMIYA

GENERAL DESCRIPTION

- Application: Refrigeration display case, commercial refrigerator, freezer, air conditioning, reefer, etc.
- Charge: SL—charge for freezer with -20°C MOP.
C,CL—charge for refrigeration
SA—charge for air conditioner with 18°C MOP.
- Max. allowable pressure: 1.9 MPa {19kgf/cm²}
- Adjustable range of superheat: 1 to 7°C
- Superheat change: 5 to 6°C (SL, C, CL—charge)
4 to 5°C (SA—charge)



VALVE NOMENCLATURE

Catalog No. is decided according to the specifications.

Example: WHX - 3430 B H SL
I II III IV V

I : Type ... WHX—Thermostatic expansion valve for general use

II: Model ... The last two figures indicate Nominal capacity.

The first and second figures indicate inlet and outlet pipe size respectively.

III: Connection ... B—Flare Nut Connection

IV: Kind of refrigerant ... M=R134a, H=R22, U=R404A, P=R407C

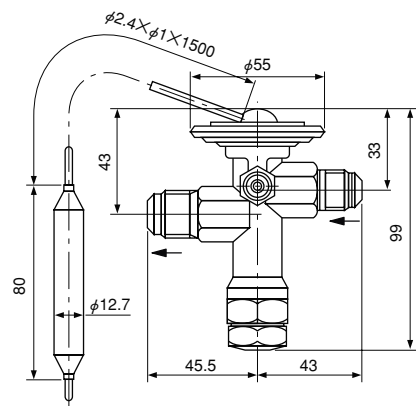
V: Kind of charge ... C=C—charge, CL=CL—charge, SA=SA—charge, SL=SL—charge

TYPE NUMBER SELECTION (SPECIFICATIONS)

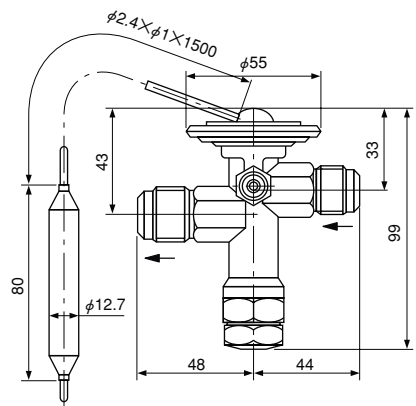
Application		Catalog No.		Capacity (U.S.R.T.) {kW}				Connection			Capil. Tube Length (mm)	Wt. (kg)					
				R22	R134a	R404A	R407C	Inlet	Outlet	Equalizer							
F Zone	Freezing -25 to -60°C	WHX-	3430BHSL	3.4 {12.0}	-	-	-	3/8"	1/2"	1/4" Flare	ϕ 2.4 × 1500	0.6					
			4540BHSL	4.5 {15.8}				1/2"	5/8"			0.67					
			4550BHSL	5.6 {19.7}				3/8"	1/2"			0.6					
			3430BUSL	-				2.21 {7.78}	1/2"			5/8"	0.67				
			4540BUSL					2.95 {10.4}	-			-	-	-	-	-	-
			4550BUSL					3.69 {13.0}									
R Zone	Refrigeration 0 to -30°C(C: R134a, R22) 0 to -40°C(C: R404A) -10 to -40°C (CL: R22, R407C)		3430BMC		3.6 {12.7}	-	-	3/8"	1/2"			0.6					
			4540BMC	4.8 {16.9}	1/2"			5/8"	0.67								
			4550BMC	6.0 {21.1}	3/8"			1/2"	0.6								
			3430BHC (CL)	4.8 {16.9}	1/2"			5/8"	0.67								
			4540BHC (CL)	6.4 {22.5}	3/8"			1/2"	0.6								
			4550BHC (CL)	8.0 {28.1}	1/2"			5/8"	0.67								
			3430BUC	-	3.4 {12.0}	3/8"	1/2"	0.6									
			4540BUC		4.6 {16.0}	1/2"	5/8"	0.67									
			4550BUC		5.7 {20.0}	3/8"	1/2"	0.6									
			3430BPCL	-	4.94 {17.4}	1/2"	5/8"	0.67									
			4540BPCL		6.57 {23.1}	3/8"	1/2"	0.6									
			4550BPCL		8.24 {28.9}	1/2"	5/8"	0.67									
A Zone	Air conditioning 10 to -20°C		3430BMSA	4.8 {16.9}	-	-	-	3/8"	1/2"			0.6					
			4540BMSA	6.4 {22.5}				1/2"	5/8"			0.67					
			4550BMSA	8.0 {28.1}				3/8"	1/2"			0.6					
			3430BMSA	-	3.6 {12.7}	-	-	1/2"	5/8"			0.67					
			4540BMSA		4.8 {16.9}			3/8"	1/2"			0.6					
			4550BMSA		6.0 {21.1}			1/2"	5/8"			0.67					
		3430BPC	-	4.94 {17.4}	1/2"	5/8"	0.67										
		4540BPC		6.57 {23.1}	-	-	-	-	-	-							
		4550BPC		8.24 {28.9}													

• Capacity: Based on condensing temp. 38°C and evaporating temp. -5°C for R & A zone, -30°C for F zone.

DIMENSIONS

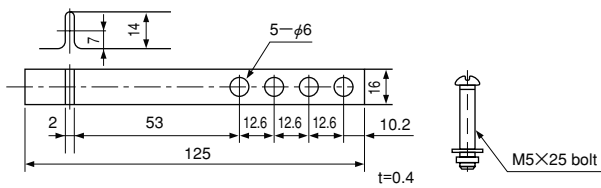


Type WHX-3430B

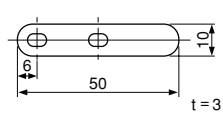


Type WHX-4540B, 4550B

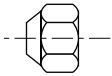
ACCESSORY



Sensing Bulb Mounting Band



Superheat Adjusting Handle



Flare Nut

Unit: mm