

TABLE 1A: General Characteristics of Body Assemblies of Liquid Charge Thermostatic Expansion Valves

Catalogue number		Connections							Refrigerant	Evaporating Temperature Range [°C]	MOP	Max bulb temperature [°C]	TS [°C]		PS [bar]	Risk Category according to PED							
Internal equalizer	External equalizer	SAE Flare			ODS [mm]		ODS [in]																
		IN	OUT	Equal.	OUT	Equal.	OUT	Equal.															
2210/4	-	3/8"	1/2"	-	-	-	-	-	R22 R407C	- 40 → + 10	without	100 (1)	- 60	+ 120	34	Art. 3.3							
2210/M12S			-	12	-	-	-																
2210/4S			-	-	-	1/2"	-																
-	2210/4E	1/2"	1/4"	-	-	-																	
-	2210/M12SE	-	12	6	-	-																	
-	2210/4SE	-	-	1/2"	1/4"	-																	
2220/4	-	3/8"	1/2"	-	-	-	-	R134a									- 40 → + 10	without	100 (1)	- 60	+ 120	34	Art. 3.3
2220/M12S			-	12	-	-	-																
2220/4S			-	-	-	1/2"	-																
-	2220/4E	1/2"	1/4"	-	-	-																	
-	2220/M12SE	-	12	6	-	-																	
-	2220/4SE	-	-	1/2"	1/4"	-																	
2230/4	-	3/8"	1/2"	-	-	-	-		R404A R507	- 40 → + 10	without	100 (1)	- 60	+ 120	34	Art. 3.3							
2230/M12S			-	12	-	-	-																
2230/4S			-	-	-	1/2"	-																
-	2230/4E	1/2"	1/4"	-	-	-																	
-	2230/M12SE	-	12	6	-	-																	
-	2230/4SE	-	-	1/2"	1/4"	-																	

(1) : when valve is installed. 60 °C with element not mounted

TABLE 1B: General Characteristics of Body Assemblies of MOP Charge Thermostatic Expansion Valves

Catalogue number		Connections							Refrigerant	Evaporating Temperature Range [°C]	MOP	Max bulb temperature [°C]	TS [°C]		PS [bar]	Risk Category according to PED							
Internal equalizer	External equalizer	SAE Flare			ODS [mm]		ODS [in]																
		IN	OUT	Equal.	OUT	Equal.	OUT	Equal.															
2211/4	-	3/8"	1/2"	-	-	-	-	-	R22 R407C	- 40 → + 10	+ 15 °C (95 psi)	100 (1)	- 60	+ 120	34	Art. 3.3							
2211/M12S			-	12	-	-	-																
2211/4S			-	-	-	1/2"	-																
-	2211/4E	1/2"	1/4"	-	-	-																	
-	2211/M12SE	-	12	6	-	-																	
-	2211/4SE	-	-	1/2"	1/4"	-																	
2221/4	-	3/8"	1/2"	-	-	-	-	R134a									- 40 → + 10	+ 15 °C (55 psi)	100 (1)	- 60	+ 120	34	Art. 3.3
2221/M12S			-	12	-	-	-																
2221/4S			-	-	-	1/2"	-																
-	2221/4E	1/2"	1/4"	-	-	-																	
-	2221/M12SE	-	12	6	-	-																	
-	2221/4SE	-	-	1/2"	1/4"	-																	
2231/4	-	3/8"	1/2"	-	-	-	-		R404A R507	- 40 → + 10	+ 15 °C (120 psi)	100 (1)	- 60	+ 120	34	Art. 3.3							
2231/M12S			-	12	-	-	-																
2231/4S			-	-	-	1/2"	-																
-	2231/4E	1/2"	1/4"	-	-	-																	
-	2231/M12SE	-	12	6	-	-																	
-	2231/4SE	-	-	1/2"	1/4"	-																	
2234/4	-	3/8"	1/2"	-	-	-	-	R404A R507									- 60 → - 25	- 20 °C (30 psi)	100 (1)	- 60	+ 120	34	Art. 3.3
2234/M12S			-	12	-	-	-																
2234/4S			-	-	-	1/2"	-																
-	2234/4E	1/2"	1/4"	-	-	-																	
-	2234/M12SE	-	12	6	-	-																	
-	2234/4SE	-	-	1/2"	1/4"	-																	

(1) : when valve is installed. 60 °C with element not mounted