

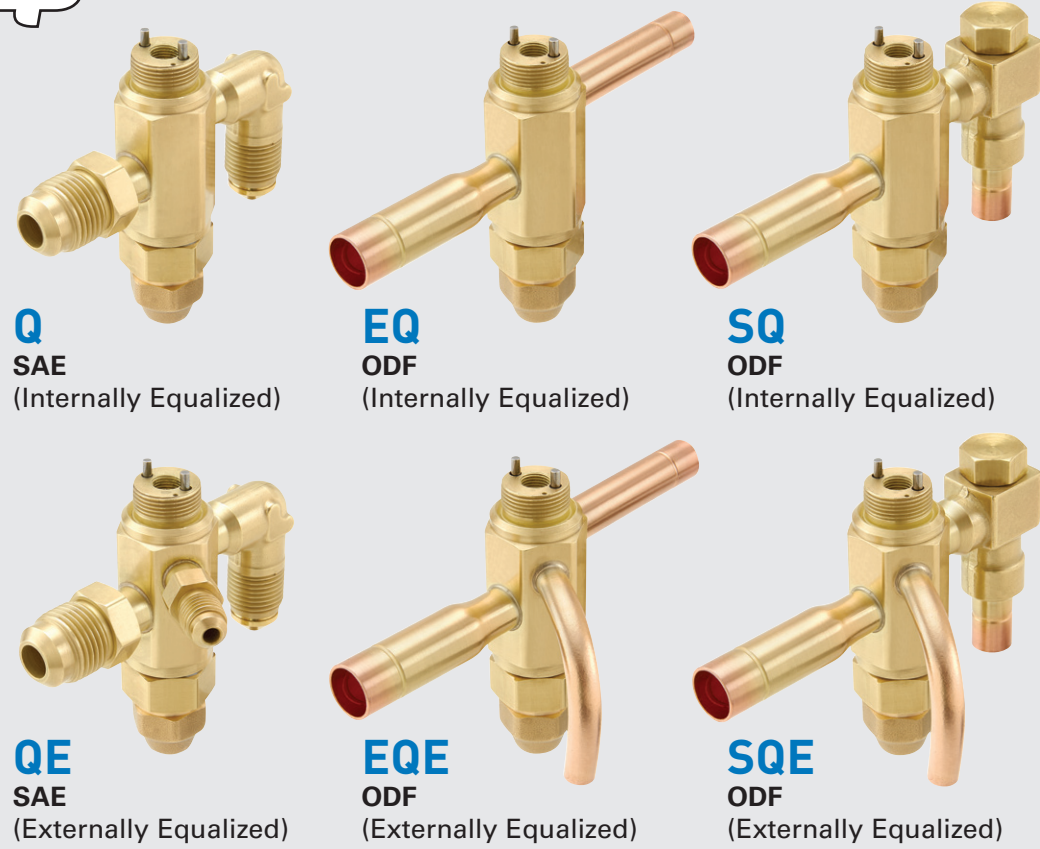
# Q SERIES Interchangeable Cartridge Style TEVs

**Q** Conventional Port TEVs

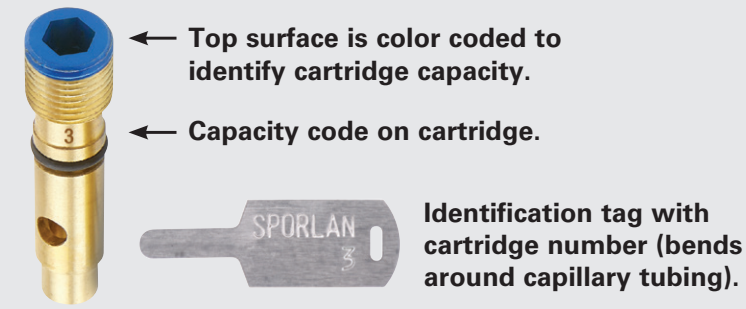
**BQ** Balanced Port TEVs



## 1 BODY

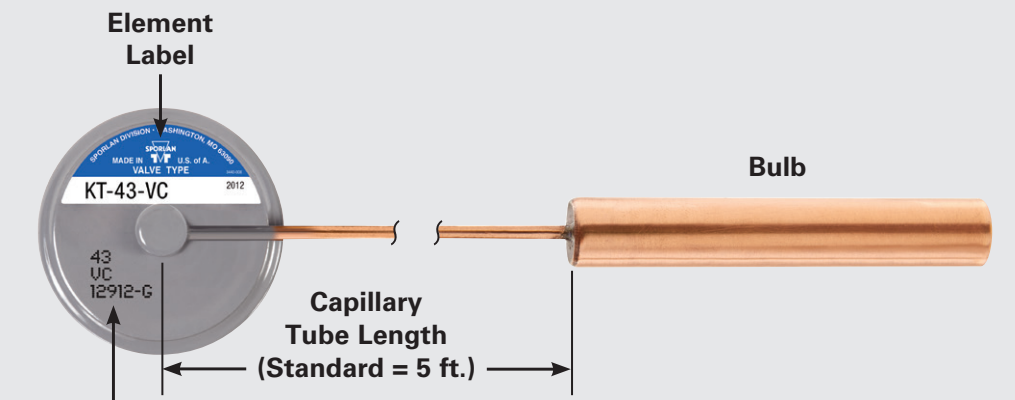


## 2 CARTRIDGE



NOMINAL CAPACITY (Tons) of the Valve to be REPLACED					Q VALVE CARTRIDGE	
R-22 / R-422D	R-134a / R-513A	R-404A / R-507	R-407A/C/F	R-448A / R-449A	SIZE	COLOR CODE
1/4	1/8	1/8	1/4	1/4	0	RED
1/3	1/6	1/6	1/3	1/3	1	YELLOW
1/2 or 3/4	1/4	1/4	1/2 or 3/4	1/2 or 3/4	1	YELLOW
1	1/2	1/2	1	1	2	GREEN
1-1/2	1	1	1-1/2	1-1/2	3	BLUE
2 or 2-1/2	1-1/2	1-1/2	2 or 2-1/2	2 or 2-1/2	4	PINK
3	2	2	3	3	5	BLACK
4 or 5	2-1/2 or 3	3	4 or 5	4 or 5	6	WHITE

## 3 ELEMENT

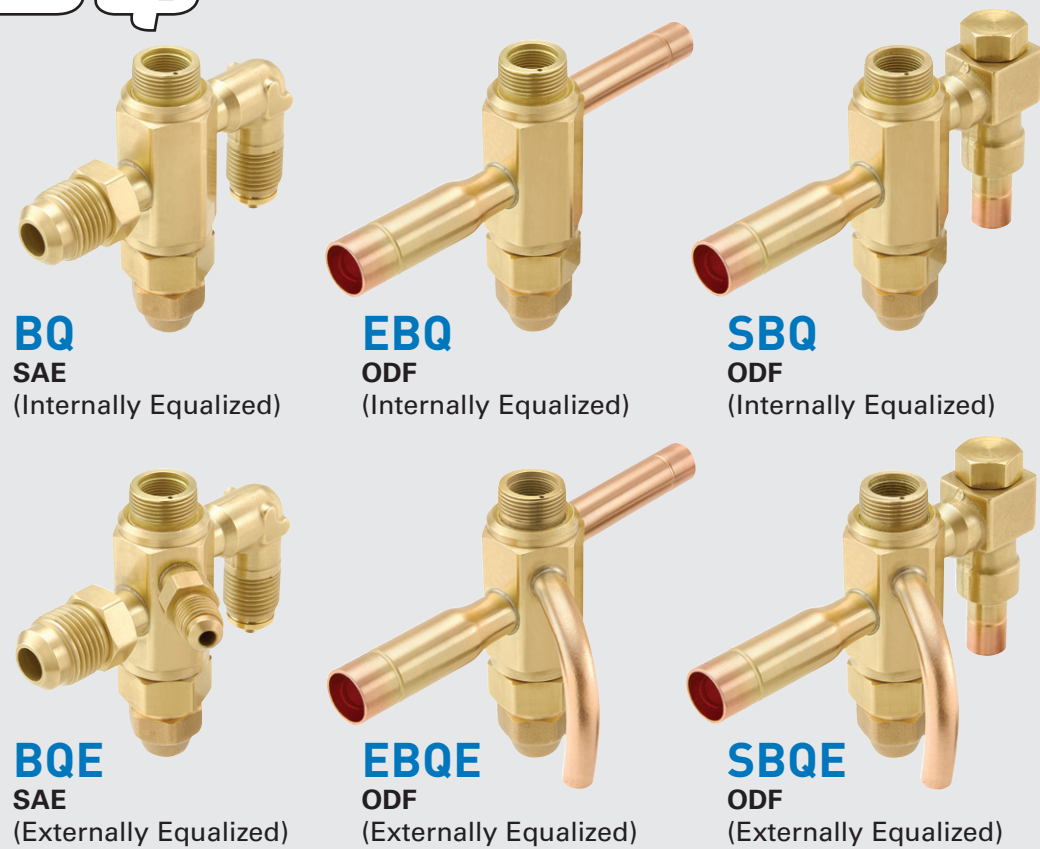


Date Code (by week and year of manufacture)

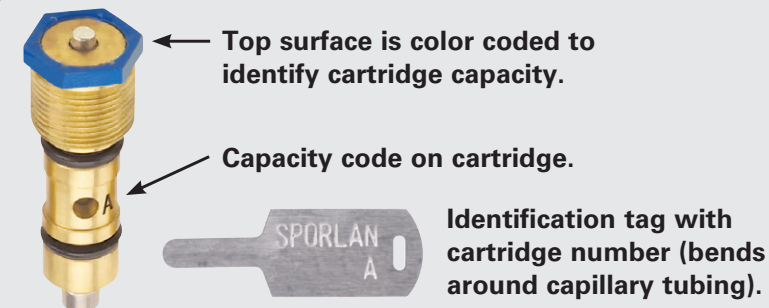
<b>KT</b>	<b>43</b>	<b>V</b>	<b>C</b>
Abbreviation for "Kit"	Element Size Number	*Refrigerant Code	Thermostatic Charge

\* While many new refrigerants and refrigerant blends have a unique letter code, many use the same thermostatic element as the traditional refrigerant they replace. Refer to the table below to select the correct thermostatic element.

## BQ



## BQ



NOMINAL CAPACITY (Tons) of the Valve to be REPLACED						BQ VALVE CARTRIDGE	
R-22 / R-422D	R-134a / R-513A	R-404A / R-507	R-407A/C/F	R-410A	R-448A / R-449A	SIZE	COLOR CODE
1/8 thru 1/3	1/8 thru 1/5	1/8 thru 1/5	1/8 thru 1/3	1/4 thru 1/3	1/8 thru 1/3	AAA	RED
1/2 thru 2/3	1/4 thru 1/3	1/4 thru 1/3	1/2 thru 2/3	1/2 thru 3/4	1/2 thru 2/3	AA	YELLOW
3/4 thru 1-1/2	1/2 thru 1	1/2 thru 1	3/4 thru 1-1/2	1 thru 1-3/4	3/4 thru 1-1/2	A	BLUE
1-3/4 thru 3	1-1/4 thru 1-3/4	1-1/4 thru 2	1-3/4 thru 3	2 thru 3-1/2	1-3/4 thru 3	B	PINK
3-1/4 thru 5-1/2	2 thru 3	2-1/4 thru 3	3-1/4 thru 5-1/2	4 thru 6	3-1/4 thru 5-1/2	C	WHITE

NOTE: BQ cartridge AA, A, B and C are also available with 15% bleed for R-22 and R-410A.

APPLICATION	REFRIGERANT										THERMOSTATIC ELEMENT	SYSTEM MOP psig	
	22	134a	404A	407A	407C	407F	410A	448A	449A	507			513A
AIR CONDITIONING	-	X	-	-	-	-	-	-	-	-	X	KT-43-JCP60	50
	X	-	-	X	X	X	-	X	X	-	-	KT-43-VCP100	90
	X	-	X	X	X	-	X	X	-	-	-	KT-43-NGA	-
	-	-	X	-	-	-	-	-	-	-	-	KT-43-SCP115	105
	-	-	-	-	-	-	X	-	-	-	-	KT-45-ZGA	-
COMMERCIAL REFRIGERATION 50°F to -10°F	-	X	-	-	-	-	-	-	-	-	X	KT-43-JC	-
	X	-	-	X	-	X	-	X	X	-	-	KT-43-VC	-
	-	-	X	-	-	-	-	-	X	-	-	KT-43-SC/PC	-
LOW TEMPERATURE REFRIGERATION 0°F to -40°F	X	-	-	X	X	X	-	X	X	-	-	KT-43-VZ	-
	X	-	-	X	X	X	-	X	X	-	-	KT-43-VZP40	30
	-	-	X	-	-	-	-	-	X	-	-	KT-43-SZ	-
	-	-	X	-	-	-	-	-	X	-	-	KT-43-SZP	35

The Sporlan type ZP thermostatic charges have essentially the same characteristics as the conventional Z cross charges with one exception: they produce a pressure limit or MOP. The ZP charges are not intended as replacements for the Z charges - they should only be used where a definite pressure limit is required to prevent overloading the compressor motor.

## ASSEMBLY

- Attach cartridge tag to capillary tube.
- Lubricate (oil) o-ring(s) on cartridge.
- Turn clockwise and apply downward force. **BQ ONLY!**
- Turn clockwise until seated. 4 mm Allen Wrench (AW-1). BQ Cartridge Tool.
- Lubricate (oil) lock ring and top of push rod(s). Thermostatic Element.
- Hand tighten element.
- After hand tight, turn element clockwise 60° (or movement equal to one hex flat). Q-Valve Tool (QVT-1), Bench Flange (QVT-F).