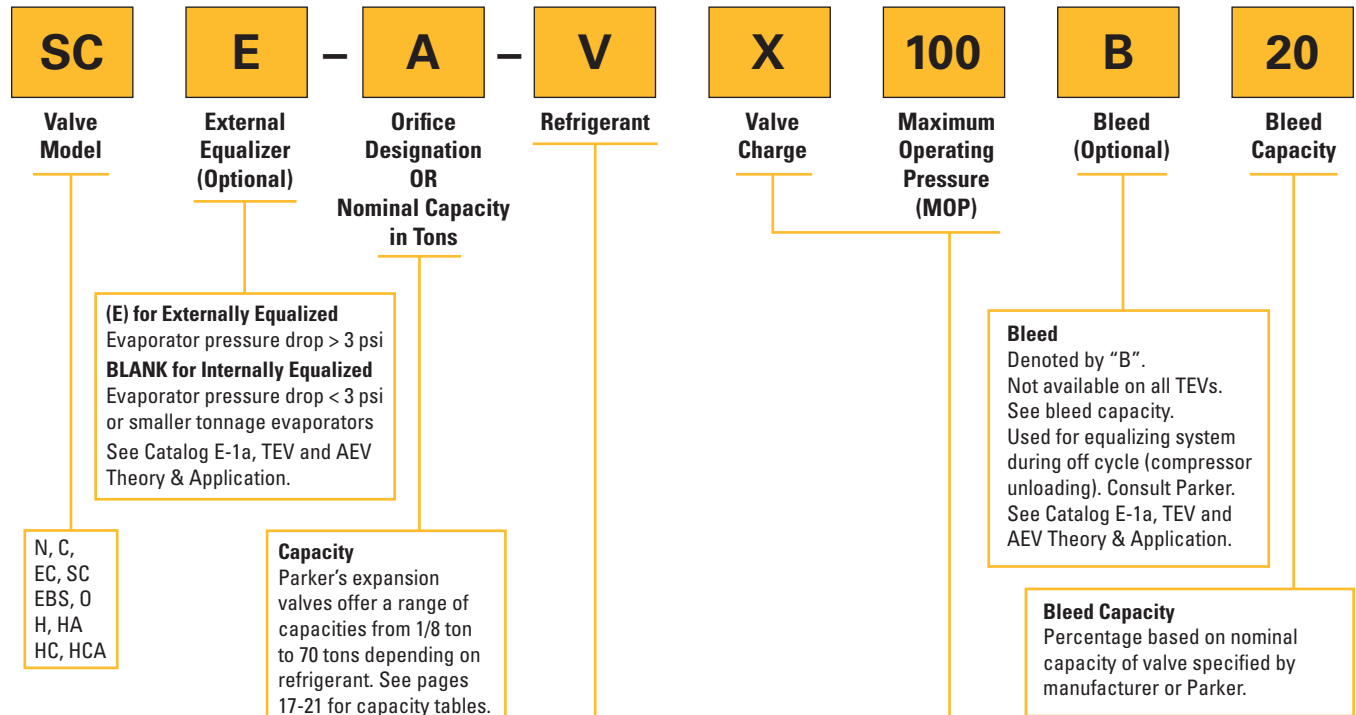


TEV Model Number Selection Guide

Nomenclature (Example)

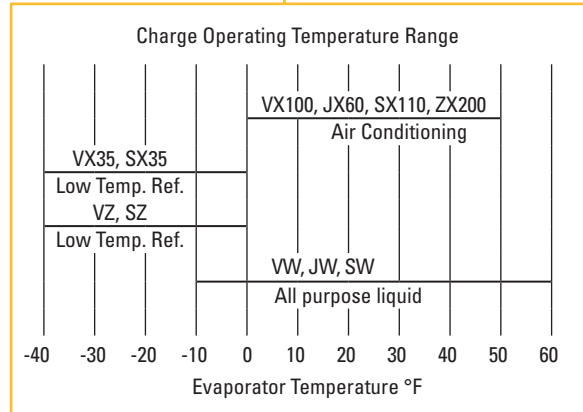


Rainbow Charge™ Refrigerant Designation

J	R-134a, R-401A (MP39), R-401B (MP66), R-12
V	R-407C (AC9000), R-22
S	R-125, R-404A (HP62), R-402A (HP80), R-402B (HP81), R-507 (AZ50)
Z	R-410A (AZ20)

Refrigerant Color Code

R-12 - yellow
R-134a - light blue
R-22 - green
R-402A - light brown (sand)
R-402B - olive
R-404A - orange
R-407C - medium brown
R-410A - rose
R-507 - teal



†Charge Type

"W" (all-purpose) liquid charge maintains nearly flat superheat control over a -10°F to +60°F (-23°C to +15°C) evaporator temperature range.

"Z" (low temperature) charge provides fast pulldown benefits like a gas charge with the non-migrating benefits of a liquid charge; usable over a -40°F to 0°F (-40°C to -18°C) evaporator temperature range.

"X" (damped response) gas charge provides a pressure limiting (MOP) charge with anti-hunt characteristics over a -40°F to +60°F (-40°C to +15°C) evaporator temperature range.

Notes: M.O.P. not available on "W" or "Z" charge.

1. Maximum operational pressure 500 psig (35 bar) high side and 275 psig (19 bar) low side.
2. Maximum storage temperature 130°F (55°C).
3. Consult Parker for pressure and temperature exceptions.
4. Do not use "W" or "Z" liquid charges in applications where bulb temperatures can exceed 130°F (55°C). For these applications use type "X" MOP gas charge **only**.

H Series and HC Series

The H series balanced port valve is designed specifically for air conditioning and heat pumps used in both air or water source systems. It offers features such as bleed ports and a variety of connection styles for the inlet, outlet and external equalizer.

The HC series adds a built-in 5 ton check valve for R-22, R-407C and R-410A heat pump applications with either factory set or field adjustable superheat.

Applications

- Air Conditioning Systems
- Heat Pump Systems
- Bi-flow (package) Heat Pump Systems

Features and Benefits

- Stainless steel power element
- Bleed ports available
- Bi-directional metering available
- Weight: 10.7 oz. (.30 kg)
- Factory set or field adjustable
- Low pressure drop internal check valve



Specifications

Refrigerant	Refrigerant Designation	Nominal Capacity (Tons)	Valve Description		Rainbow Charges™	Bleed Port for Off Cycle Operation (Optional)	Connections - (Inches)			
			Internally Equalized	Externally Equalized			Inlet	Outlet		
R-22 R-407C	V	1-1/2	HA 1-1/2V	HAE 1-1/2V	X100	B	1/4, 3/8, 1/2 & 5/8 ODF flo-rater	3/8, 1/2, 5/8 & 7/8 ODF flo-rater		
		3	HA 3V	HAE 3V						
		5	HA 5V	HAE 5V						
		models with internal check valves - "C" designation								
		1-1/2	HCA 1-1/2V	HCAE 1-1/2V	X100	B	1/4, 3/8, 1/2 & 5/8 ODF flo-rater	3/8, 1/2, 5/8 & 7/8 ODF flo-rater		
		3	HCA 3V	HCAE 3V						
5	HCA 5V	HCAE 5V								
R-410A	Z	1-1/2	HA 1-1/2Z	HAE 1-1/2Z	X200	B	1/4, 3/8, 1/2 & 5/8 ODF flo-rater	3/8, 1/2, 5/8 & 7/8 ODF flo-rater		
		3	HA 3Z	HAE 3Z						
		5	HA 5Z	HAE 5Z						
		specific models with internal check valves - "C" designation								
		1-1/2	HCA 1-1/2Z	HCAE 1-1/2Z	X200	B	1/4, 3/8, 1/2 & 5/8 ODF flo-rater	3/8, 1/2, 5/8 & 7/8 ODF flo-rater		
		2	HCA 2Z	HCAE 2Z						
3	HCA 3Z	HCAE 3Z								
5	HCA 5Z	HCAE 5Z								