

Type EBS/O

Parker Sporlan Type **EBS** and **O** valve is a brass bar body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a permanent 12 mesh strainer. The balanced port construction makes this valve ideally suited for refrigeration and air conditioning applications which operate over widely varying conditions.



A synthetic seating surface provides tight shut-off during system off periods. These two valve types has three body styles, which providing capacities from 26 kW up to 160 kW R-404A.

These valves can also be ordered as a bidirectional valve, allowing control of flow in both directions for use on heat pump applications.

Specifications & Materials/Details of Construction

Body	Machined Brass Bar		
Seat	Brass Port Machined in Body		
Pin	Stainless Steel		
Pushrod	Stainless Steel		
Element to Body Joint Type	Knife Edge to Metal		
Connections	ODF Copper Fittings Silver Soldered to Body		
Inlet Strainer	Permanent 12 mesh strainer		
Operating Temp. Range	10°C to -40°C (50°F to -40°F)		
MRP	48.3 bar (700 psig) for R-410A only / 31.0 bar (450 psi)		
Maximum Temperature	121°C (250°F) Limited Exposure Time		
Max Ambient Temp.	60°C (140°F)		
Max Bulb Temp.	ZGA, ZCP180 (R410A) Element Charge		71.1°C (160°F)
	GA, CP, ZP all Refrigerants excl R410A		121°C (250°F)
	JC (R134a) Element Charge		87.8°C (190°F)
	VC (R407C) Element Charge		71.1°C (160°F)
	SC (R404A) Element Charge		65.6°C (150°F)
	SZ (R404A) Element Charge		76.7°C (170°F)
Max External Leakage	.10 oz/yr @ 300 psig (2.8 gram/yr @ 20 bar)		
UL	SA5460		
Compatibility	All HFC, HCFC, Refrigerants and blends		

The Type EBS and O Thermostatic Expansion Valves comply with the Directive(s) 97-23-EC.

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EBS and O Thermostatic Expansion Valves

Benefits

- Selective thermostatic charges provide optimum performance for all common applications air conditioning and heat pump, medium and low temp. refrigeration
- Stainless steel diaphragm and welded element construction
- Large flat diaphragm permits precise valve control
- Balanced Port Design provides excellent control on applications with widely varying operation conditions
- Externally adjustable
- The copper bulb design provides an excellent heat transfer
- Replaceable Thermostatic Elements

Options

- CP180, ZGA charge available for R410A systems
- Pressure limiting charge (CP) and anti hunting charge (GA) available
- Bi- flow feature

Nominal Capacity Tons of Refrigeration				Connections - Inches*		Connections - mm*	
R-410A	R-407C	R-134a	R-404A, R507	Inlet	Outlet	Inlet	Outlet
-	-	7	7-1/2	5/8	7/8	15.9	22.2
-	15	9	10	7/8	1-1/8	22.2	28.6
20	20	12	12	7/8	1-3/8	22.2	34.9
25	30	16	21	1-1/8	1-3/8	28.6	34.9
35	40	23	30	1-1/8	1-3/8	28.6	34.9
50	55	32	35	1-1/8	1-3/8	28.6	34.9
60	70	40	45	1-1/8	1-3/8	28.6	34.9

* Some fitting combinations may not be available

TEV capacity ratings for R-134a, R-401A, R-404A, R-407C, R-408A, 409A, R-410A, and R-422D are based on vapor free 38°C liquid refrigerant entering the expansion valve, a maximum opening superheat of 4K, and a standard factory air test superheat setting. A discussion of the relationship between valve capacities and superheat settings can be found in Bulletin 10-9. The ratings for evaporator temperatures 10°C, 5°C, -5°C, -15°C, -20°C, -30°C, -40°C in the capacity tables are in accordance with ANSI/ARI Standard Number 750. TEVs are tested in accordance with ANSI/ASHRAE 17. For TEV capacity ratings at operating conditions not shown in the following tables, contact RACE Division of Parker.

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EBS and O Thermostatic Expansion Valves Selection Tables

Air Conditioning, Heat Pump and Commercial Refrigeration Applications

Valve Size	Nominal Capacity	Refrigerant											
		R422D						407C					
		Recommended Thermostatic Charge											
		VC, VCP100, VGA				VZ, VZP**40				VC, VCP100*, VGA			
		Evaporator Temperature °C											
kW	10°	5°	-5°	-15°	-20°	-30°	-40°	10°	5°	-5°	-15°	-20°	
15	110	32.6	31.1	32.5	27.3	24.5	15.2	11.5	47	89.4	94.9	81.2	37.8
20	130	48.2	46	48.1	40.4	38.4	22.6	18.1	69.6	111	118	97.3	59.2
30	140	66.2	63.2	66.1	55.5	50.3	32.2	26.8	95.6	118	130	102	77.6
40	190	85.8	83.3	90.4	69.6	65.8	49.1	40.8	124	161	177	139	101
55	250	117	114	123	95	89	56	45.4	169	214	235	184	137
70	320	155	151	164	126	118	63.5	49.4	224	263	290	226	181

* MOP point CP100 ≈ 14°C, **MOP point ZP40 ≈ -12°C

Optional bi-directional feature is available for valve size 15, 20 and 30, please refer to the order selection guide.

Liquid Temperature Entering TEV °C

Refrigerant	-10°C	0°	10°	20°	30°	50°	60°
	Correction Factor, CF Liquid Temperature						
407C	1.73	1.59	1.45	1.3	1.15	0.84	0.67
422D	1.86	1.68	1.5	1.33	1.14	0.77	0.57

These factors include corrections for liquid refrigerant density and net refrigerating effect and are based on an evaporator temperature of -15°C. However, they may be used for any evaporator temperature from -40°C to 10°C since the variation in the actual factors across this range is insignificant.

407C, 422D Evaporator Temperature °C	Pressure Drop Across TEV (bar)							
	2	4	6	8	10	12	14	16
	Correction Factor, CF Pressure Drop							
5° & 10°	0.58	0.82	1.00	1.15	1.29	1.41	1.53	1.63
-5° & -15°	0.50	0.71	0.87	1.00	1.12	1.22	1.32	1.41
-20° & -30°	0.45	0.63	0.77	0.89	1.00	1.11	1.18	1.26
-40°	0.41	0.58	0.71	0.82	0.91	1.00	1.08	1.15

TEV Capacity = TEV Rating x CF Liquid Temperature x CF Pressure Drop

Example: Actual capacity of a nominal 130 kW R-407C Type O valve at -5°C evaporator, 10 bar pressure drop across the TEV and a 30°C liquid temperature entering the TEV = 118 (from rating chart) x 1.15 (CF liquid temperature) x 1.12 (CF pressure drop) = 152 kW.

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EBS and O Thermostatic Expansion Valves Selection Tables

Air Conditioning, Heat Pump and Commercial Refrigeration Applications

Valve Size	Nominal Capacity	Refrigerant R410A			
		Recommended Thermostatic Charge			
		ZCP180*, ZGA			
		Evaporator Temperature °C			
	kW	10°	5°	-5°	-15°
20	70	67.7	68.1	75.1	71.5
25	88	81.2	81.7	90.1	85.8
35	120	112	112	124	118
50	180	169	170	188	179
60	210	203	204	225	215

* MOP point CP180 ≈ 15°C

Optional bi-directional feature is available for valve size 20, 25 and 35, please refer to the order selection guide.

Liquid Temperature Entering TEV °C

Refrigerant 410a	20°	30°	40°	50°	60°
	Correction Factor, CF Liquid Temperature				
	1.30	1.15	1.00	0.84	0.65

These factors include corrections for liquid refrigerant density and net refrigerating effect and are based on an evaporator temperature of -15°C. However, they may be used for any evaporator temperature from -15°C to 10°C since the variation in the actual factors across this range is insignificant.

R410A Evaporator Temperature °C	Pressure Drop Across TEV (bar)				
	8	11	14	17	20
	Correction Factor, CF Pressure Drop				
5° & 10°	0.85	1.00	1.13	1.24	1.35
-5° & -15°	0.76	0.89	1.00	1.10	1.20

TEV Capacity = TEV Rating x CF Liquid Temperature x CF Pressure Drop

Example: Actual capacity of a nominal 88 kW R-410A Type O valve at -15°C evaporator, 17 bar pressure drop across the TEV and a 30°C liquid temperature entering the TEV = 85.8 (from rating chart) x 1.15 (CF liquid temperature) x 1.10 (CF pressure drop) = 108.5 kW.

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EBS and O Throstatic Expansion Valves Selection Tables

Air Conditioning, Heat Pump and Commercial Refrigeration Applications

Valve Size	Nominal Capacity	Refrigerant											
		404A, 507**						408A					
		Recommended Throstatic Charge											
		SCP115*, SC			SZ, SZP*			SCP115, SC			SZ, SZP		
		Evaporator Temperature °C											
kW	5°	-5°	-15°	-20°	-30°	-40°	5°	-5°	-15°	-20°	-30°	-40°	
7-1/2	26	24.5	25.3	21.3	20.5	13.5	12.6	33.4	34.9	33.5	29.1	19.6	17
10	35	30.2	31.7	25.3	24.6	17.9	15.4	41.1	43.9	39.8	34.9	25.9	21
12	42	42	42	34.2	34.3	27.2	23.5	57.2	58.1	48.1	48.7	39.4	34.9
21	74	67.8	67.9	51.1	46.3	32.6	28.1	92.4	93.8	71.7	65.7	47.2	41.8
30	110	97.1	106	81.7	72.8	48.8	42.1	132	146	115	103	70.7	62.6
35	120	113	123	94.7	82.6	52.9	45.7	153	169	133	117	76.7	68
45	160	145	158	122	103	61	52.7	197	218	171	146	88.4	78.3

* MOP point CP115≈ 10°C, MOP point ZP≈ -17°C

** At low temp. Applications capacities are almost the same when using the "S" charge for R507, for medium temp. Applications the Superheat may need adjusting.

Valve size 7-1/2 is approved for bi-directional applications.

Liquid Temperature Entering TEV °C

Refrigerant	-10°C	0°	10°	20°	30°	40°	50°	60°
	Correction Factor, CF Liquid Temperature							
404A	1.89	1.72	1.56	1.37	1.19	1	0.79	0.56
408A	1.58	1.46	1.34	1.22	1.1	0.97	0.85	0.71

These factors include corrections for liquid refrigerant density and net refrigerating effect and are based on an evaporator temperature of -15°C. However, they may be used for any evaporator temperature from -40°C to 5°C since the variation in the actual factors across this range is insignificant.

Evaporator Temperature °C	Pressure Drop Across TEV (bar)							
	2	4	6	8	10	12	14	16
	Correction Factor, CF Pressure Drop							
5°	0.58	0.82	1.00	1.15	1.29	1.41	1.53	1.63
-5° & -15°	0.50	0.71	0.87	1.00	1.12	1.22	1.32	1.41
-20° & -30°	0.45	0.63	0.77	0.89	1.00	1.11	1.18	1.26
-40°	0.41	0.58	0.71	0.82	0.91	1.00	1.08	1.15

TEV Capacity = TEV Rating x CF Liquid Temperature x CF Pressure Drop

Example: Actual capacity of a nominal 74 kW R-404A Type O valve at -5°C evaporator, 10 bar pressure drop across the TEV, and a 30°C liquid temperature entering the TEV = 67.9(from rating chart) x 1.19 (CF liquid temperature) x 1.12 (CF pressure drop) = 90.5kW.

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Valve Dimensions

Air Conditioning, Heat Pump and Commercial Refrigeration Applications

Valve Size	Nominal Capacity	Refrigerant											
		134a				409A				401A			
		Recommended Thermostatic Charge											
		JC, JCP60*				FC, FCP60				FC, FCP60			
		Evaporator Temperature °C											
kW	10°	5°	-5°	-15°	10°	5°	-5°	-15°	10°	5°	-5°	-15°	
7	25	31.5	28.7	28.6	24.6	31.6	28.9	28.9	25	33.8	30.9	31	26.8
9	32	42.5	38.1	36.3	29.5	42.7	38.4	36.7	30	45.6	41	39.4	32.2
12	42	50.9	47.8	51.1	44.8	51.2	48.1	51.7	45.6	54.6	51.4	55.4	49
16	56	67.5	63.3	67.7	59.4	67.8	63.7	68.5	60.5	72.3	63	68.5	60.4
23	81	96.3	96.6	108	92.6	96.7	94.2	110	94.2	103	94	109	94.2
32	110	134	130	150	129	135	131	151	131	144	131	152	131
40	140	167	163	188	161	168	164	190	164	180	164	190	164

* MOP point CP60 ≈ 12°C

Valve size 7 is approved for bi-directional applications.

Liquid Temperature Entering TEV °C

Liquid Temperature Entering TEV °C									
Refrigerant	-10°C	0°	10°	20°	30°	40°	50°	60°	
Correction Factor, CF Liquid Temperature									
134a	1.64	1.52	1.39	1.26	1.13	1.00	0.87	0.73	
409A	1.51	1.41	1.31	1.21	1.11	1.00	0.89	0.78	
401A	1.52	1.42	1.31	1.2	1.09	0.98	0.86	0.74	

These factors include corrections for liquid refrigerant density and net refrigerating effect and are based on an evaporator temperature of -15°C. However, they may be used for any evaporator temperature from -15°C to 10°C since the variation in the actual factors across this range is insignificant.

Evaporator Temperature °C	Pressure Drop Across TEV (bar)							
	2	4	6	8	10	12	14	16
	Correction Factor, CF Pressure Drop							
5° & 10°	0.71	1.00	1.22	1.41	1.58	1.73	1.87	2.00
-5° & -15°	0.58	0.82	1.00	1.15	1.29	1.41	1.53	1.63

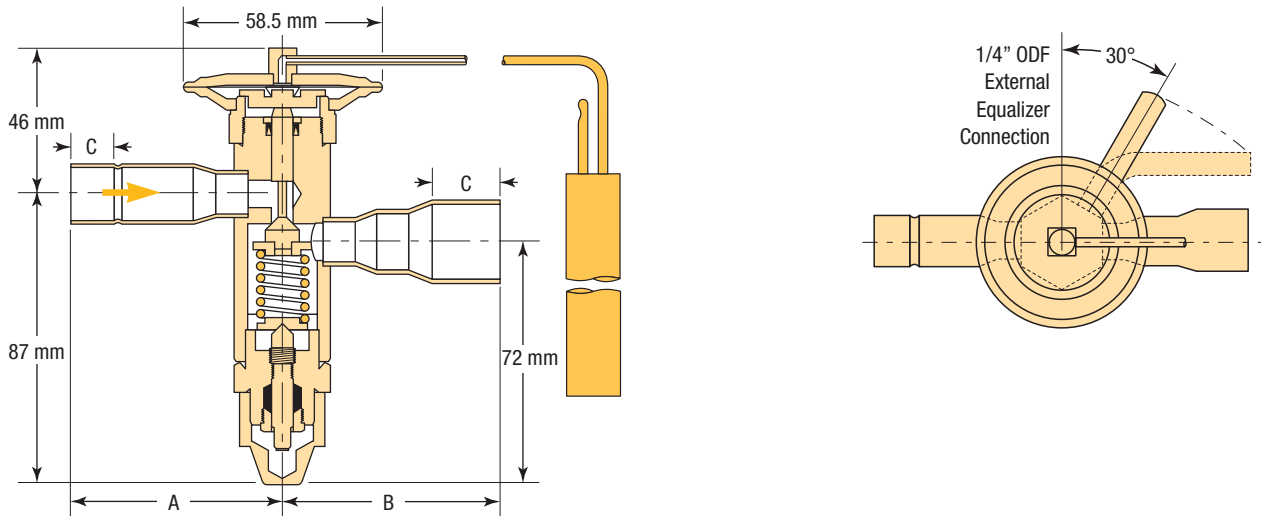
TEV Capacity = TEV Rating x CF Liquid Temperature x CF Pressure Drop

Example: Actual capacity of a nominal 56 kW R-134a Type O valve at -5°C evaporator, 8 bar pressure drop across the TEV, and a 30°C liquid temperature entering the TEV = 67.7 (from rating chart) x 1.13 (CF liquid temperature) x 1.15 (CF pressure drop) = 88kW.

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Valve Dimensions

Type EBS



Dimensions Connections

Valve Type	Fitting Size Inches	mm		
		A	B	C
EBS	3/8 ODF	62	-	9
	1/2 ODF	62	-	13
	5/8 ODF	62	64	19
	7/8 ODF	-	64	20.5
	1-1/8 ODF	-	77	24.5

Bulb Sizes

Standard Charges	Refrigerant			
	22	134a	404A	507
C	13 OD x 89			
Z & ZP Series	13 OD x 89	-	13 OD x 89	
CP Series	13 OD x 89			-
VGA	19 od x 51	-	-	-

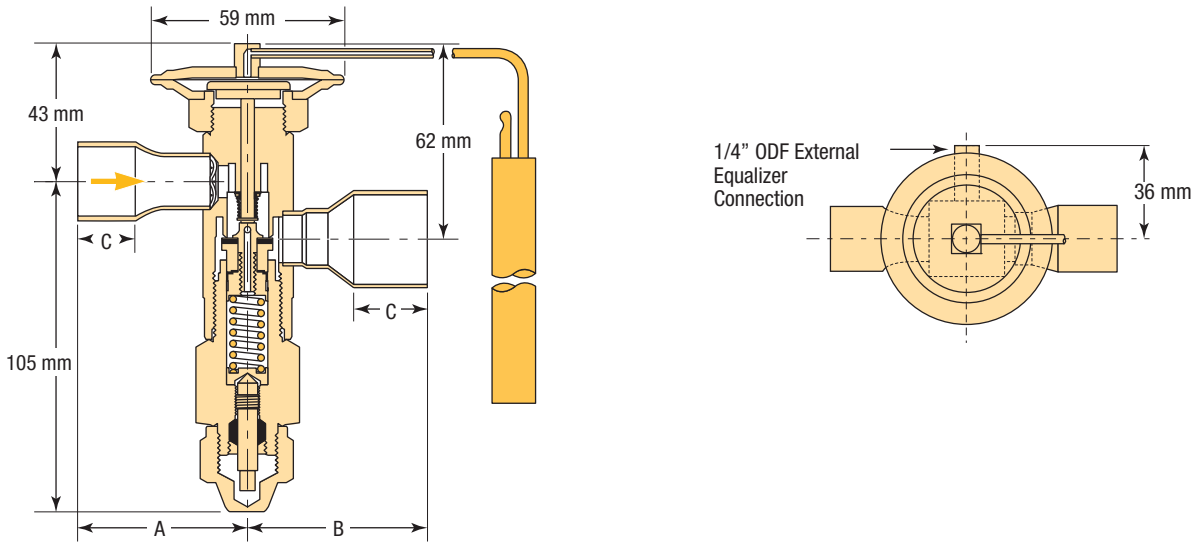
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Valve Dimensions

Type O Small



Dimensions Connections

Valve Type	Fitting Size Inches	mm		
		A	B	C
O	1-1/8 ODF	68	-	23
	1-3/8 ODF	-	76	25
	1-5/8 ODF	-	79	28

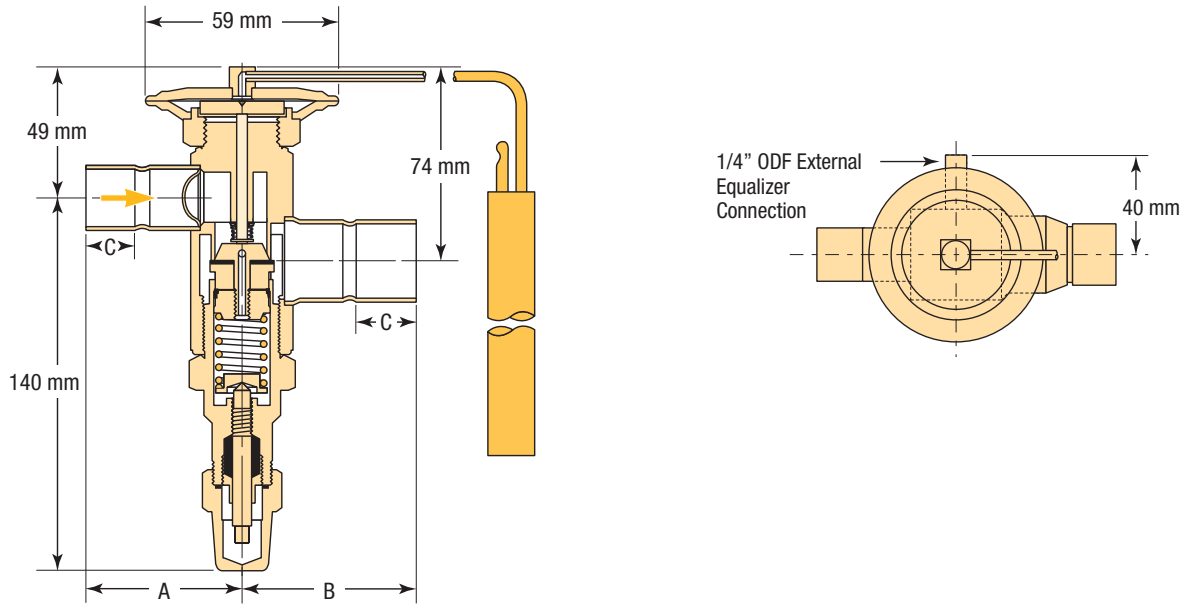
Bulb Sizes

Standard Charges	Refrigerant				
	22	134a	404A	410A	507
C	19 OD x 102	13 OD x 127	19 OD x 102	-	19 OD x 102
Z & ZP Series	19 OD x 102	-	19 OD x 102	-	19 OD x 102
CP Series	19 OD x 102		-		
VGA	19 OD x 102	-	-	-	-
ZGA	-	-	-	19 OD x 51	-

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Valve Dimensions

Type O Large



Dimensions Connections

Valve Type	Fitting Size Inches	mm		
		A	B	C
O	7/8 ODF	53	-	19
	1-1/8 ODF	56	57	25
	1-3/8 ODF	-	61	25

Bulb Sizes

Standard Charges	Refrigerant				
	22	134a	404A	410A	507
C	13 OD x 89		-	13 OD x 89	
Z & ZP Series	13 OD x 89	-	13 OD x 89	-	13 OD x 89
CP Series	13 OD x 89		-		
VGA	19 OD x 51	-	-	-	-
ZGA	-	-	-	19 OD x 51	-

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Order Selection Guide

EBS & O Type

Valve Size	Refrigerant	Part Number	Valve Size / Charge	Valve Description	
Small EBS / O	22, 407C, 422D (V)	124366	OVE-15-C	7/8 x 1-1/8 ODF - 5'	
		124296	OVE-15-CP100	7/8 x 1-1/8 ODF - 5'	
		125472	OVEB-15-CP100 (Bi-flow)	7/8 x 1-1/8 ODF - 5'	
		125473	OVEB-15-CP100 (Bi-flow)	5/8 x 7/8 ODF - 5'	
		124226	OVE-15-GA	7/8 x 1-1/8 ODF - 5'	
		124373	OVE-20-C	7/8 x 1-3/8 ODF - 5'	
		124303	OVE-20-CP100	7/8 x 1-3/8 ODF - 5'	
		125470	OVEB-20-CP100 (Bi-flow)	1-1/8 x 1-3/8 ODF - 5'	
		124233	OVE-20-GA	7/8 x 1-3/8 ODF - 5'	
		124310	OVE-30-CP100	1-1/8 x 1-3/8 ODF - 5'	
		125471	OVEB-30-CP100 (Bi-flow)	1-1/8 x 1-3/8 ODF - 5'	
		124240	OVE-30-GA	1-1/8 x 1-3/8 ODF - 5'	
		404A, 507, 408A, (S)	163507	EBSSE-7-1/2-C	5/8 x 7/8 ODF - 5'
			163509	EBSSE-7-1/2-ZP	5/8 x 7/8 ODF - 5'
	163547		EBSSE-7-1/2-CP115	5/8 x 7/8 ODF - 5'	
	163877		EBSSE-10-C	7/8 x 1-1/8 ODF - 5'	
	163752		EBSSE-10-ZP	7/8 x 1-1/8 ODF - 5'	
	163724		EBSSE-10-CP115	7/8 x 1-1/8 ODF - 5'	
	124214		OSE-12-C	7/8 x 1-3/8 ODF - 5'	
	124225		OSE-12-ZP	7/8 x 1-3/8 ODF - 5'	
	124333		OSE-12-CP115	7/8 x 1-3/8 ODF - 5'	
	124215		OSE-21-C	1-1/8 x 1-3/8 ODF - 5'	
	124231		OSE-21-ZP	1-1/8 x 1-3/8 ODF - 5'	
	124163		OSE-21-CP115	1-1/8 x 1-3/8 ODF - 5'	
	134a, 409A, 401A (J)		163506	EBSJE-7-CP60	5/8 x 7/8 ODF - 5'
			163505	EBSJE-7-C	5/8 x 7/8 ODF - 5'
		163897	EBSJE-9-CP60	7/8 x 1-1/8 ODF - 5'	
		164995	EBSJE-9-C	7/8 x 1-1/8 ODF - 5'	
		124212	OJE-12-CP60	7/8 x 1-3/8 ODF - 5'	
		125519	OJE-12-C	7/8 x 1-3/8 ODF - 5'	
		125527	OJE-16-CP60	1-1/8 x 1-3/8 ODF - 5'	
		124209	OJE-16-C	1-1/8 x 1-3/8 ODF - 5'	
		R410A (Z)	125428	OZE-20-GA	7/8 x 1-3/8 ODF - 5'
			125436	OZEB-20-GA (Bi-flow)	7/8 x 1-1/8 ODF - 5'
	125697		OZEB-20-GA (Bi-flow)	1-1/8 x 1-1/8 ODF - 5'	
	Special order valve		OZE-20-CP180	7/8 x 1-3/8 ODF - 5'	
	125372		OZE-25-GA	1-1/8 x 1-3/8 ODF - 5'	
	125482		OZEB-25-GA (Bi-flow)	7/8 x 1-1/8 ODF - 5'	
	125699		OZEB-25-GA (Bi-flow)	1-1/8 x 1-1/8 ODF - 5'	
	Special order valve		OZE-25-CP180	1-1/8 x 1-3/8 ODF - 5'	
	125399		OZE-35-GA	1-1/8 x 1-3/8 ODF - 5'	
	125695		OZEB-35-GA (Bi-flow)	1-1/8 x 1-1/8 ODF - 5'	
	168813		OZEB-35-GA (Bi-flow)	1-1/8 x 1-3/8 ODF - 5'	
	Special order valve		OZE-35-CP180	1-1/8 x 1-3/8 ODF - 5'	
	407C, 22, 422D (V), 134a, 409A, 401A (J) 404A, 507, 408A (S) 410A (Z)		Special order valves	OVE-15, 20, 30 - 5'	
				OJE-12, 16 - 5'	
			OSE-12, 21 - 5'		
			OZE-20, 25, 35 - 5'		

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Order Selection Guide

O Type

Valve Size	Refrigerant	Part Number	Valve Size / Charge	Valve Description
Large O	22, 407C, 422D (V)	124387	OVE-40-C	1-1/8 x 1-3/8 ODF - 5'
		124317	OVE-40-CP100	1-1/8 x 1-3/8 ODF - 5'
		124247	OVE-40-GA	1-1/8 x 1-3/8 ODF - 5'
		124331	OVE-55-CP100	1-1/8 x 1-3/8 ODF - 5'
		124261	OVE-55-GA	1-1/8 x 1-3/8 ODF - 5'
		124345	OVE-70-CP100	1-1/8 x 1-3/8 ODF - 5'
		124275	OVE-70-GA	1-1/8 x 1-3/8 ODF - 5'
	134a, 409A, 401A (J)	124647	OJE-23-CP60	1-1/8 x 1-3/8 ODF - 5'
		124859	OJE-23-C	1-1/8 x 1-3/8 ODF - 5'
		124652	OJE-32-CP60	1-1/8 x 1-3/8 ODF - 5'
		124701	OJE-32-C	1-1/8 x 1-3/8 ODF - 5'
		124631	OJE-40-CP60	1-1/8 x 1-3/8 ODF - 5'
		125528	OJE-40-C	1-1/8 x 1-3/8 ODF - 5'
		404A, 507, 408A, (S)	124819	OSE-30-C
	124750		OSE-30-ZP	1-1/8 x 1-3/8 ODF - 5'
	124156		OSE-35-C	1-1/8 x 1-3/8 ODF - 5'
	124145		OSE-35-ZP	1-1/8 x 1-3/8 ODF - 5'
	124127		OSE-45-C	1-1/8 x 1-3/8 ODF - 5'
	124153		OSE-45-ZP	1-1/8 x 1-3/8 ODF - 5'
	410A (Z)		125426	OZE-50-GA
		Special order valve	OZE-50-CP180	1-1/8 x 1-3/8 ODF - 5'
		125467	OZE-60-GA	1-1/8 x 1-3/8 ODF - 5'
		Special order valve	OZE-60-CP180	1-1/8 x 1-3/8 ODF - 5'
	407C, 22, 422D (V), 134a, 409A, 401A (J) 404A, 507, 408A (S) 410A (Z)	Special order valves		OJE-23, 32, 40 - 5'
				OVE-40, 55, 70 - 5'
				OSE-30, 35, 45 - 5'
				OZE-50, 60 - 5'

Special order valves or other valve configurations might be available upon request.

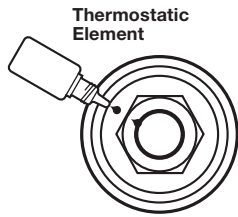
All "EBS" and "O" Type valves are supplied with a 1.5 meter length of capillary tube and with a 1/4" ODF equalizer connection.

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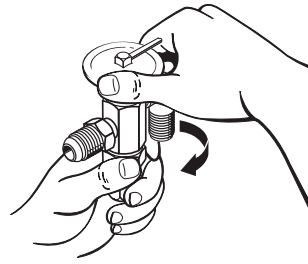
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racecustomerservice@parker.com / www.parker.com/race



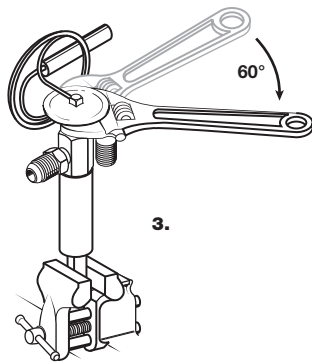
Thermostatic Element Installation



1. (Oil) Lubricate locking surface.



2. Hand tighten element.



View of Element



4. After hand tight, turn element clock wise 60° (or movement equal to one hex flat).

Miscellaneous Parts		Part Number
Oil Bottle (With Oil)	OB-1	184001

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Valve Thermostatic Element Kits

Type R, EBS & O

Valve Size	Refrigerant (Code)	Element Kit No.	Tubing Length	Part Number	Tubing Length	Part Number		
The following Kits contain: 1 Thermostatic Element, 2 Bulb Clamps, 2 Bolts and Nuts.								
(E)R, SR (1-8)	410A(Z)	KT-45-ZCP180	30 in/760 mm	181355	5 ft/1500 mm	181213		
		KT-45-ZGA		181209		181212		
(E)R, SR (10-12)	407C, 22(V)	KT-45-5-VCP100		-		181217		
		KT-45-5-VGA		-		-		
(E)R, SR (12.5-15)	410A(Z)	KT-45-5-ZCP180		-		181216		
		KT-45-5-ZGA		-		180298		
(E)R, SR, (E)BQ, SBQ	134a(J)	KT-43-JC		30 in/760 mm		180314	5 ft/1500 mm	180310
		KT-43-JCP60				180206		180312
		KT-43-JZ				180350		179914
		KT-43-JZP				-		180354
		KT-43-VGA				180284		180276
	407C, 22(V)	KT-43-VCP100				180270		180272
		KT-43-VC	180269		180319			
		KT-43-VZ	180273		180323			
		KT-43-VZP40	180326		180324			
		KT-43-SC	180330		180204			
	404A(S)	KT-43-SCP115	180372		180360			
		KT-43-SZ	180228		180318			
		KT-43-SZP	180230		180060			
		EBS Small O	134a(J)		KT-83-JCP60	180053		-
					KT-83-JC	181126		-
407C, 22(V)	KT-83-VGA		180905	-				
	KT-83-VCP100		180891	-				
	KT-83-VC		180887	-				
	KT-83-VZ		180921	-				
	KT-83-VZP40		180926	-				
404A(S)	KT-83-SC		181030	-				
	KT-83-SCP115	179934	-					
	KT-83-SZ	180062	-					
Small O	410A(Z)	KT-85-ZGA	180918	-				
		KT-85-ZCP180	181353	-				
		KT-85-3-ZGA	183366	-				
Large O	410A(Z)	KT-85-3-ZCP180	-	-				
		KT-85-3-ZGA	-	-				
Large O	134a(J)	KT-33-JCP60	180051	-				
		KT-33-JC	180028	-				
		KT-33-VGA	180041	-				
	22(V)	KT-33-VCP100	180029	-				
		KT-33-VC	180025	-				
		KT-33-VZ	180055	-				
		KT-33-VZP40	180250	-				
		KT-33-SC	180086	-				
	404A(S)	KT-33-SCP115	180110	-				
		KT-33-SZ	180088	-				
		KT-33-SZP	180102	-				
		KT-33-SZP	180102	-				

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