

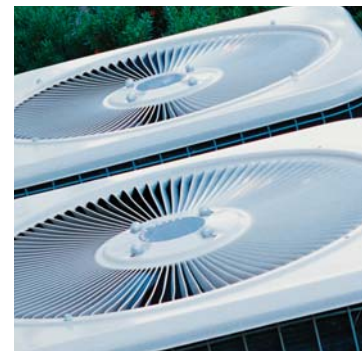


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J8 Thermostatic Expansion Valve Products & Custom Solutions

RACE Catalogue 10-10-7 J8-2/UK, March 2012



ENGINEERING YOUR SUCCESS.

The J8 Thermostatic Expansion Valve

Introduction

The J8 Thermostatic Expansion Valves are designed to regulate refrigerant flow into evaporators as a response to sensed superheat value. They can be used in a wide range of AC and refrigeration applications

Features

- Adjustable superheat
- 8 Replaceable orifice assemblies
- Temperature range from -40°C to $+15^{\circ}\text{C}$
- Thermostatic charges with or without MOP (Maximum Operating Pressure)
- Solder ODF (with inlet connector) or Flare SAE fittings
- Stainless steel thermostatic element
- Copper sensing bulb
- EC compliant (PED, RoHS & REACH Compliant)

Technical Specifications

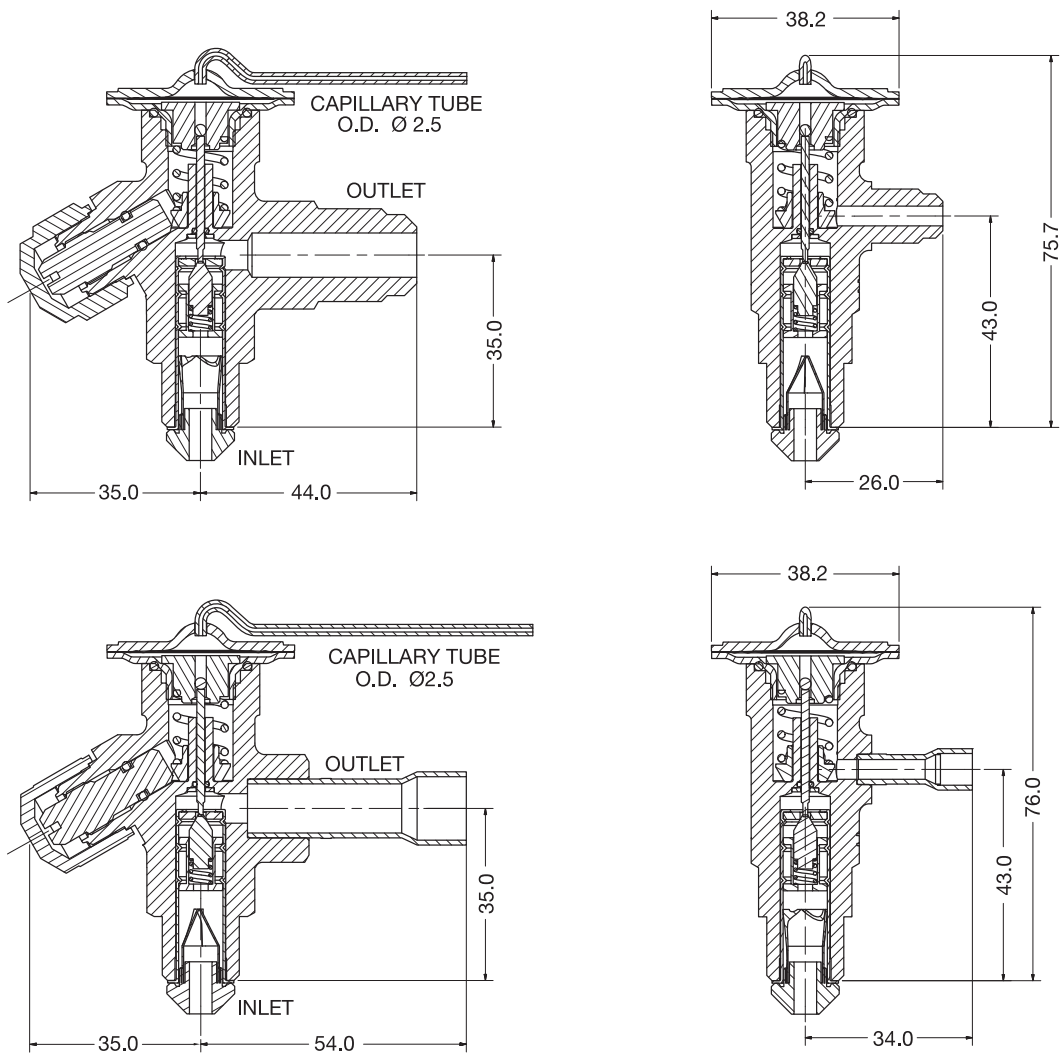
- Maximum bulb temperature: 100°C
- Maximum valve body temperature: 121°C
- Short-lived peak: 149°C
- Maximum working pressure MWP: 34 barg
- Maximum test pressure: 38 barg

J8 valves are supplied as three individual component parts that need to be ordered separately:

- Valve body & Thermostatic element assembly
- Cartridge & Filter assembly
- Inlet ODF adaptor (not mandatory)

Please refer to further sections for selection/ordering information.

J8 Assembly



All dimensions in millimeters (mm).

Valve Nomenclature / Ordering Instructions

Example

J8	E	F	-	N	W
Valve Type	"E" specifies external equalizer. Omission of letter	Connection Type: (Inlet always supplied as 3/8" Flare, SAE)		Sporlan Code - Refrigerant Element Label Color Code: J = R134a Blue R401A Pink S = R404A Orange R402A Sand R402B Olive R502 Purple R507 Teal N = R407C Lt. Brown	Thermostatic Charge
	"E" indicates valve with internal equalizer. e.g. J8F-NW	F = Flare, SAE M = Metric, ODF S = Standard, ODF (US Customary Units)			

Valve Body & Thermostatic Element Assembly

Refrigerant	Connections			MOP bar / °C	Valve Type	Part Number	Capillary Tube Length mm	Evaporator Temperature Range °C	
	Inlet	Outlet	Equalizer						
R407C	3/8" SAE	1/2" SAE	1/4" SAE	-	J8EF-NW	600002-000	1500	-40°C to +15°C	
			6.9 bar / +17°C	J8EF-NX100	600003-000				
			Internally Equalized	-	J8F-NW	600023-000			
			6.9 bar / +17°C	J8F-NX100	600024-000				
			6 mm ODF	-	J8EM-NW	600009-000			
			6.9 bar / +17°C	J8EM-NX100	600010-000				
		12 mm ODF	Internally Equalized	-	J8M-NW	600030-000			
			6.9 bar / +17°C	J8M-NX100	600031-000				
			1/2" ODF	1/4" ODF	-	J8ES-NW			600016-000
				6.9 bar / +17°C	J8ES-NX100	600017-000			
				Internally Equalized	-	J8S-NW			600037-000
			6.9 bar / +17°C	J8S-NX100	600038-000				
R134a R401A	3/8" SAE	1/2" SAE	1/4" SAE	-	J8EF-JW	600000-000	1500	-40°C to +15°C	
			4.1 bar / +17°C	J8EF-JX60	600001-000				
			Internally Equalized	-	J8F-JW	600021-000			
			4.1 bar / +17°C	J8F-JX60	600022-000				
			6 mm ODF	-	J8EM-JW	600007-000			
			4.1 bar / +17°C	J8EM-JX60	600008-000				
		12 mm ODF	Internally Equalized	-	J8M-JW	600028-000			
			4.1 bar / +17°C	J8M-JX60	600029-000				
			1/2" ODF	1/4" ODF	-	J8ES-JW			600014-000
				4.1 bar / +17°C	J8ES-JX60	600015-000			
				Internally Equalized	-	J8S-JW			600035-000
			4.1 bar / +17°C	J8S-JX60	600036-000				
R404A R402A R402B R502 R507	3/8" SAE	1/2" SAE	1/4" SAE	-	J8EF-SW	600004-000	1500	-40°C to +10°C	
			7.6 bar / +12°C	J8EF-SX110	600005-000	-40°C to +10°C			
			2.4 bar / -17°C	J8EF-SX35	600006-000	-40°C to -18°C			
			Internally Equalized	-	J8F-SW	600025-000		-40°C to +10°C	
			7.6 bar / +12°C	J8F-SX110	600026-000	-40°C to +10°C			
			2.4 bar / -17°C	J8F-SX35	600027-000	-40°C to -18°C			
			6 mm ODF	-	J8EM-SW	600011-000		-40°C to +10°C	
			7.6 bar / +12°C	J8EM-SX110	600012-000	-40°C to +10°C			
			2.4 bar / -17°C	J8EM-SX35	600013-000	-40°C to -18°C			
			Internally Equalized	-	J8M-SW	600032-000		-40°C to +10°C	
		7.6 bar / +12°C	J8M-SX110	600033-000	-40°C to +10°C				
		2.4 bar / -17°C	J8M-SX35	600034-000	-40°C to -18°C				
		12 mm ODF	1/4" ODF	-	J8ES-SW	600018-000		-40°C to +10°C	
			7.6 bar / +12°C	J8ES-SX110	600019-000	-40°C to +10°C			
			2.4 bar / -17°C	J8ES-SX35	600020-000	-40°C to -18°C			
			Internally Equalized	-	J8S-SW	600039-000		-40°C to +10°C	
			7.6 bar / +12°C	J8S-SX110	600040-000	-40°C to +10°C			
			2.4 bar / -17°C	J8S-SX35	600041-000	-40°C to -18°C			

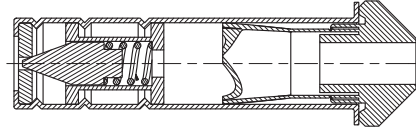
J8 Cartridge & Filter Assembly

Cartridge and Filter Assembly Rated Capacities, kW¹

Item Number	Cartridge Type	Rated Capacities, kW ¹		
		R407C	R134a	R404A
506032-000	C-0X	0.55	0.44	0.42
506033-000	C-00	1.2	1.0	0.77
506034-000	C-01	2.4	1.6	1.4
506035-000	C-02	3.8	2.6	2.1
506036-000	C-03	5.2	4.3	3.9
506037-000	C-04	9.0	7.0	6.3
506038-000	C-05	11.3	8.6	7.7
506039-000	C-06	15.0	9.5	8.2

¹ The rated capacity is based on the following conditions:
 Evaporating temperature, $T_e = +5^\circ\text{C}$
 Condensing temperature, $T_c = +32^\circ\text{C}$
 Refrigerant temperature ahead of valve, $T_1 = +28^\circ\text{C}$

- The cartridge orifice is stamped with the orifice size, ex. C-0X



- A metallic tag is provided with each individual cartridge and should be fixed on the cap tube as the orifice is installed in the valve body.



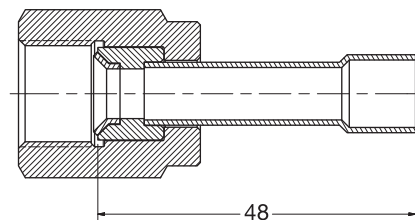
Inlet ODF Adaptor

All J8 Thermostatic Expansion Valves feature 3/8" SAE inlet fitting. Solder inlet adaptors are available from Parker/Sporlan distributors.

Solder inlet adaptors allow the installation of the J8 TEV and easy access of cartridge orifice & filter assembly.

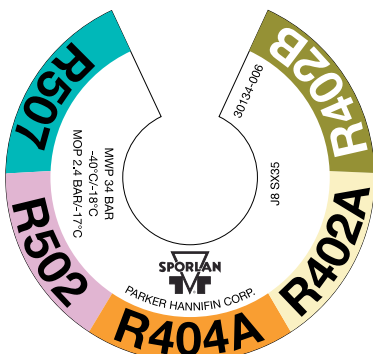
Parker/Sporlan Solder Inlet Adaptors have been designed to be used with flare orifice filter.

Item	Description
A-6M	Solder Inlet Adaptor 3/8" SAE to 6mm ODF
A-10M	Solder Inlet Adaptor 3/8" SAE to 10mm ODF
A-2	Solder Inlet Adaptor 3/8" SAE to 1/4" ODF
A-3	Solder Inlet Adaptor 3/8" SAE to 3/8" ODF



All dimensions in millimeters (mm).

Identification



The main information about the valve is provided on the element label:

- Element J8 SX35
- Refrigerant
- Maximum Working Pressure (MWP) = 34 bar
- Evaporating temperature range in $^\circ\text{C} = -40^\circ\text{C}/-18^\circ\text{C}$
- Maximum Operating Pressure (MOP) point in bar & $^\circ\text{C} = \text{MOP } 2.4 \text{ bar}/-17^\circ\text{C}$

Selection Tables

R407C (kW)

Orifice Number	Pressure Drop Across the Valve (bar)							
	2	4	6	8	10	12	14	16
Evaporating Temperature +10°C								
C-0X	0.44	0.55	0.62	0.67	0.69	0.70	0.69	0.70
C-00	1.0	1.2	1.3	1.4	1.5	1.5	1.5	1.5
C-01	2.1	2.6	3.0	3.1	3.2	3.2	3.3	3.2
C-02	3.1	4.1	4.8	5.2	5.4	5.5	5.6	5.6
C-03	5.2	6.9	8.0	8.6	9.1	9.2	9.3	9.3
C-04	8.8	11.6	13.4	14.6	15.2	15.4	15.6	15.6
C-05	10.6	14.0	16.0	17.4	18.3	18.5	18.7	18.7
C-06	11.8	15.5	17.7	19.1	20.1	20.3	20.5	20.5

Orifice Number	Pressure Drop Across the Valve (bar)							
	2	4	6	8	10	12	14	16
Evaporating Temperature 0°C								
C-0X	0.44	0.55	0.62	0.66	0.69	0.70	0.70	0.69
C-00	0.96	1.1	1.3	1.4	1.4	1.5	1.5	1.4
C-01	1.8	2.3	2.5	2.7	2.8	2.8	2.9	2.9
C-02	2.7	3.5	4.1	4.3	4.6	4.7	4.8	4.8
C-03	4.5	5.9	6.7	7.4	7.7	7.8	7.9	7.9
C-04	7.5	9.9	11.2	12.2	12.8	13.0	13.2	13.3
C-05	9.2	11.9	13.6	14.7	15.5	15.8	15.9	15.9
C-06	10.1	13.1	14.9	16.2	17.0	17.3	17.5	17.5

Orifice Number	Pressure Drop Across the Valve (bar)							
	2	4	6	8	10	12	14	16
Evaporating Temperature -10°C								
C-0X	0.42	0.53	0.59	0.63	0.66	0.68	0.68	0.67
C-00	0.90	1.1	1.2	1.3	1.3	1.4	1.4	1.3
C-01	1.5	1.8	2.1	2.3	2.3	2.3	2.4	2.4
C-02	2.3	3.0	3.3	3.6	3.8	3.9	4.0	3.9
C-03	3.8	4.9	5.6	6.0	6.4	6.6	6.7	6.5
C-04	6.3	8.2	9.2	10.0	10.6	10.8	11.0	10.9
C-05	7.7	9.8	11.1	12.0	12.8	13.0	13.2	13.1
C-06	8.6	10.8	12.2	13.2	14.0	14.3	14.5	14.4

Orifice Number	Pressure Drop Across the Valve (bar)							
	2	4	6	8	10	12	14	16
Evaporating Temperature -20°C								
C-0X	-	0.50	0.56	0.59	0.62	0.63	0.65	0.63
C-00	-	1.0	1.1	1.2	1.2	1.3	1.3	1.2
C-01	-	1.5	1.7	1.8	2.0	2.0	2.0	2.0
C-02	-	2.4	2.7	2.9	3.1	3.1	3.2	3.1
C-03	-	4.0	4.5	4.9	5.1	5.2	5.3	5.2
C-04	-	6.6	7.5	8.1	8.5	8.6	8.8	8.7
C-05	-	8.1	9.1	9.8	10.2	10.5	10.6	10.5
C-06	-	8.8	10.0	10.7	11.3	11.4	11.7	11.6

Orifice Number	Pressure Drop Across the Valve (bar)							
	2	4	6	8	10	12	14	16
Evaporating Temperature -30°C								
C-0X	-	0.45	0.50	0.54	0.56	0.58	0.58	0.58
C-00	-	0.89	1.0	1.1	1.1	1.2	1.1	1.1
C-01	-	1.3	1.4	1.5	1.6	1.5	1.6	1.6
C-02	-	1.9	2.2	2.7	2.5	2.5	2.5	2.5
C-03	-	3.3	3.7	3.9	4.0	4.1	4.2	4.2
C-04	-	5.3	6.1	6.4	6.7	6.8	7.0	6.9
C-05	-	6.5	7.3	7.7	8.1	8.3	8.4	8.4
C-06	-	7.2	8.0	8.6	8.9	9.1	9.3	9.2

Orifice Number	Pressure Drop Across the Valve (bar)							
	2	4	6	8	10	12	14	16
Evaporating Temperature -40°C								
C-0X	-	-	0.46	0.48	0.51	0.53	0.53	0.54
C-00	-	-	0.88	0.92	1.0	1.0	1.0	1.0
C-01	-	-	1.2	1.3	1.2	1.3	1.3	1.4
C-02	-	-	1.7	1.9	1.9	1.9	2.0	1.9
C-03	-	-	2.9	3.1	3.2	3.3	3.3	3.3
C-04	-	-	4.8	5.0	5.2	5.3	5.4	5.4
C-05	-	-	5.8	6.2	6.3	6.6	6.6	6.6
C-06	-	-	6.4	6.8	7.0	7.2	7.3	7.3

Correction Factor, (CF) Liquid Temperature

TEV corrected capacity = Required Evaporator Capacity / Correction Factor, (CF), for Subcooling.

Subcooling	4K	10K	15K	20K	25K	30K	35K	40K	45K	50K
Correction Factor	1.00	1.08	1.14	1.21	1.27	1.33	1.39	1.45	1.51	1.57

Selection Tables

R134a/R401A (kW)

Orifice Number	Pressure Drop Across the Valve (bar)				
	2	4	6	8	10
Evaporating Temperature +10°C					
C-0X	0.37	0.47	0.52	0.55	0.56
C-00	0.78	0.95	1.0	1.1	1.1
C-01	1.4	1.7	1.9	2.0	2.0
C-02	2.0	2.6	3.0	3.1	3.2
C-03	3.4	4.4	5.0	5.2	5.4
C-04	5.7	7.3	8.2	8.7	9.0
C-05	6.9	8.9	9.9	10.8	10.9
C-06	7.6	9.7	10.9	11.5	11.9

Orifice Number	Pressure Drop Across the Valve (bar)				
	2	4	6	8	10
Evaporating Temperature 0°C					
C-0X	0.36	0.46	0.51	0.52	0.54
C-00	0.72	0.86	0.95	1.0	1.0
C-01	1.2	1.4	1.5	1.6	1.6
C-02	1.7	2.2	2.4	2.6	2.6
C-03	2.8	3.7	4.1	4.3	4.4
C-04	4.7	6.0	6.7	7.1	7.3
C-05	5.7	7.3	8.1	8.6	8.8
C-06	6.3	8.0	9.0	9.5	9.7

Orifice Number	Pressure Drop Across the Valve (bar)				
	2	4	6	8	10
Evaporating Temperature -10°C					
C-0X	0.33	0.42	0.47	0.48	0.48
C-00	0.65	0.77	0.85	0.89	0.90
C-01	0.90	1.2	1.3	1.4	1.4
C-02	1.4	1.8	2.0	2.1	2.1
C-03	2.3	2.9	3.3	3.5	3.6
C-04	3.8	4.8	5.3	5.7	5.9
C-05	4.6	5.8	6.5	6.9	7.1
C-06	5.1	6.4	7.2	7.6	7.7

Orifice Number	Pressure Drop Across the Valve (bar)				
	2	4	6	8	10
Evaporating Temperature -20°C					
C-0X	0.31	0.39	0.43	0.45	0.46
C-00	0.58	0.68	0.76	0.79	0.80
C-01	0.73	0.90	1.0	1.1	1.1
C-02	1.1	1.4	1.5	1.6	1.7
C-03	1.9	2.3	2.6	2.7	2.8
C-04	3.0	3.8	4.2	4.5	4.6
C-05	3.7	4.6	5.1	5.4	5.5
C-06	4.1	5.0	5.6	5.9	6.1

Orifice Number	Pressure Drop Across the Valve (bar)				
	2	4	6	8	10
Evaporating Temperature -30°C					
C-0X	0.28	0.35	0.39	0.41	0.42
C-00	0.53	0.61	0.67	0.70	0.70
C-01	0.59	0.72	0.79	0.84	0.86
C-02	0.90	1.1	1.2	1.3	1.3
C-03	1.5	1.9	2.1	2.2	2.2
C-04	2.4	3.0	3.4	3.5	3.6
C-05	3.0	3.6	4.0	4.2	4.3
C-06	3.2	4.0	4.4	4.7	4.8

Orifice Number	Pressure Drop Across the Valve (bar)				
	2	4	6	8	10
Evaporating Temperature -40°C					
C-0X	0.25	0.31	0.35	0.36	0.37
C-00	0.48	0.55	0.59	0.62	0.63
C-01	0.49	0.59	0.65	0.68	0.69
C-02	0.74	0.89	1.0	1.0	1.0
C-03	1.2	1.5	1.7	1.8	1.8
C-04	2.0	2.4	2.7	2.8	2.8
C-05	2.4	2.9	3.2	3.5	3.5
C-06	2.7	3.2	3.6	3.8	3.9

Correction Factor, (CF) Liquid Temperature

TEV corrected capacity = Required Evaporator Capacity / Correction Factor, (CF), for Subcooling.

Subcooling	4K	10K	15K	20K	25K	30K	35K	40K	45K	50K
Correction Factor	1.00	1.08	1.13	1.19	1.25	1.31	1.37	1.42	1.48	1.54

Selection Tables

R404A/R507 (kW)

Orifice Number	Pressure Drop Across the Valve (bar)							
	2	4	6	8	10	12	14	16
Evaporating Temperature +10°C								
C-0X	0.31	0.39	0.44	0.46	0.47	0.47	0.46	0.45
C-00	0.74	0.90	1.0	1.0	1.1	1.1	1.0	1.0
C-01	1.5	1.9	2.1	2.2	2.3	2.3	2.2	2.1
C-02	2.3	3.0	3.4	3.6	3.7	3.7	3.7	3.6
C-03	3.9	5.1	5.6	6.0	6.2	6.3	6.2	6.0
C-04	6.5	8.5	9.5	10.2	10.5	10.5	10.3	10.1
C-05	7.9	10.2	11.4	12.2	12.5	12.6	12.3	12.0
C-06	8.7	11.3	12.6	13.4	13.8	13.8	13.6	13.2

Orifice Number	Pressure Drop Across the Valve (bar)							
	2	4	6	8	10	12	14	16
Evaporating Temperature 0°C								
C-0X	0.33	0.41	0.45	0.46	0.47	0.47	0.47	0.45
C-00	0.75	0.88	1.0	1.0	1.0	1.0	1.0	1.0
C-01	1.4	1.7	1.8	1.9	2.0	2.0	2.0	1.9
C-02	2.1	2.6	3.0	3.1	3.2	3.3	3.2	3.1
C-03	3.5	4.4	5.0	5.2	5.4	5.4	5.3	5.2
C-04	5.8	7.4	8.3	8.7	9.0	9.0	8.9	8.7
C-05	7.0	8.9	10.0	10.5	10.8	10.9	10.8	10.4
C-06	7.7	9.8	11.0	11.6	11.9	12.0	11.8	11.4

Orifice Number	Pressure Drop Across the Valve (bar)							
	2	4	6	8	10	12	14	16
Evaporating Temperature -10°C								
C-0X	0.33	0.41	0.44	0.46	0.46	0.46	0.45	0.45
C-00	0.72	0.84	0.90	0.92	1.0	1.0	0.94	0.91
C-01	1.2	1.4	1.5	1.6	1.6	1.7	1.6	1.6
C-02	1.8	2.2	2.5	2.6	2.7	2.7	2.7	2.6
C-03	2.9	3.7	4.2	4.4	4.5	4.5	4.5	4.4
C-04	4.9	6.3	6.9	7.3	7.4	7.5	7.4	7.2
C-05	5.9	7.6	8.4	8.8	9.0	9.1	9.0	8.7
C-06	6.6	8.4	9.3	9.7	9.9	10.0	9.9	9.6

Orifice Number	Pressure Drop Across the Valve (bar)							
	2	4	6	8	10	12	14	16
Evaporating Temperature -20°C								
C-0X	-	0.39	0.42	0.44	0.43	0.44	0.43	0.42
C-00	-	0.77	0.83	0.85	0.87	0.87	0.87	0.84
C-01	-	1.2	1.4	1.4	1.4	1.4	1.4	1.4
C-02	-	1.9	2.0	2.1	2.2	2.2	2.2	2.1
C-03	-	3.1	3.5	3.6	3.7	3.7	3.7	3.6
C-04	-	5.1	5.7	5.9	6.1	6.1	6.0	5.9
C-05	-	6.2	6.9	7.2	7.3	7.3	7.2	7.1
C-06	-	6.8	7.6	7.9	8.0	8.0	7.9	7.7

Orifice Number	Pressure Drop Across the Valve (bar)							
	2	4	6	8	10	12	14	16
Evaporating Temperature -30°C								
C-0X	-	-	0.39	0.41	0.40	0.41	0.40	0.39
C-00	-	-	0.74	0.77	0.77	0.77	0.76	0.74
C-01	-	-	1.1	1.1	1.1	1.1	1.1	1.1
C-02	-	-	1.6	1.7	1.7	1.7	1.7	1.6
C-03	-	-	2.7	2.8	2.9	2.9	2.8	2.7
C-04	-	-	4.5	4.7	4.7	4.7	4.7	4.6
C-05	-	-	5.5	5.7	5.7	5.7	5.7	5.5
C-06	-	-	6.0	6.2	6.3	6.3	6.2	6.1

Orifice Number	Pressure Drop Across the Valve (bar)							
	2	4	6	8	10	12	14	16
Evaporating Temperature -40°C								
C-0X	-	-	0.35	0.36	0.36	0.36	0.35	0.35
C-00	-	-	0.66	0.67	0.68	0.67	0.66	0.65
C-01	-	-	0.83	0.86	0.87	0.86	0.85	0.82
C-02	-	-	1.3	1.3	1.3	1.3	1.3	1.2
C-03	-	-	2.2	2.2	2.2	2.2	2.2	2.1
C-04	-	-	3.5	3.7	3.7	3.7	3.6	3.5
C-05	-	-	4.3	4.4	4.5	4.4	4.4	4.2
C-06	-	-	4.7	4.9	5.0	4.9	4.8	4.7

Correction Factor, (CF) Liquid Temperature

TEV corrected capacity = Required Evaporator Capacity / Correction Factor, (CF), for Subcooling.

Subcooling	4K	10K	15K	20K	25K	30K	35K	40K	45K	50K
Correction Factor	1.00	1.10	1.20	1.29	1.37	1.46	1.54	1.63	1.70	1.78



Parker's Motion & Control Technologies

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further info call 00800 27 27 5374



Aerospace

Key Markets

Aftermarket services
Commercial transports
Engines
General & business aviation
Helicopters
Launch vehicles
Military aircraft
Missiles
Power generation
Regional transports
Unmanned aerial vehicles

Key Products

Control systems & actuation products
Engine systems & components
Fluid conveyance systems & components
Fluid metering, delivery & atomization devices
Fuel systems & components
Fuel tank inerting systems
Hydraulic systems & components
Thermal management
Wheels & brakes



Climate Control

Key Markets

Agriculture
Air conditioning
Construction Machinery
Food & beverage
Industrial machinery
Life sciences
Oil & gas
Precision cooling
Process
Refrigeration
Transportation

Key Products

Accumulators
Advanced actuators
CO₂ controls
Electronic controllers
Filter driers
Hand shut-off valves
Heat exchangers
Hose & fittings
Pressure regulating valves
Refrigerant distributors
Safety relief valves
Smart pumps
Solenoid valves
Thermostatic expansion valves



Electromechanical

Key Markets

Aerospace
Factory automation
Life science & medical
Machine tools
Packaging machinery
Paper machinery
Plastics machinery & converting
Primary metals
Semiconductor & electronics
Textile
Wire & cable

Key Products

AC/DC drives & systems
Electric actuators, gantry robots & slides
Electrohydraulic actuation systems
Electromechanical actuation systems
Human machine interface
Linear motors
Stepper motors, servo motors, drives & controls
Structural extrusions



Filtration

Key Markets

Aerospace
Food & beverage
Industrial plant & equipment
Life sciences
Marine
Mobile equipment
Oil & gas
Power generation & renewable energy
Process
Transportation
Water Purification

Key Products

Analytical gas generators
Compressed air filters & dryers
Engine air, coolant, fuel & oil filtration systems
Fluid condition monitoring systems
Hydraulic & lubrication filters
Hydrogen, nitrogen & zero air generators
Instrumentation filters
Membrane & fiber filters
Microfiltration
Sterile air filtration
Water desalination & purification filters & system



Fluid & Gas Handling

Key Markets

Aerial lift
Agriculture
Bulk chemical handling
Construction machinery
Food & beverage
Fuel & gas delivery
Industrial machinery
Life sciences
Marine
Mining
Mobile
Oil & gas
Renewable energy
Transportation

Key Products

Check valves
Connectors for low pressure fluid conveyance
Deep sea umbilicals
Diagnostic equipment
Hose couplings
Industrial hose
Mooring systems & power cables
PTFE hose & tubing
Quick couplings
Rubber & thermoplastic hose
Tube fittings & adapters
Tubing & plastic fittings

Hydraulics

Key Markets

Aerial lift
Agriculture
Alternative energy
Construction machinery
Forestry
Industrial machinery
Machine tools
Marine
Material handling
Mining
Oil & gas
Power generation
Refuse vehicles
Renewable energy
Truck hydraulics
Turf equipment

Key Products

Accumulators
Cartridge valves
Electrohydraulic actuators
Human machine interfaces
Hybrid drives
Hydraulic cylinders
Hydraulic motors & pumps
Hydraulic systems
Hydraulic valves & controls
Hydrostatic steering
Integrated hydraulic circuits
Power take-offs
Power units
Rotary actuators
Sensors

Pneumatics

Key Markets

Aerospace
Conveyor & material handling
Factory automation
Life science & medical
Machine tools
Packaging machinery
Transportation & automotive

Key Products

Air preparation
Brass fittings & valves
Manifolds
Pneumatic accessories
Pneumatic actuators & grippers
Pneumatic valves & controls
Quick disconnects
Rotary actuators
Rubber & thermoplastic hose & couplings
Structural extrusions
Thermoplastic tubing & fittings
Vacuum generators, cups & sensors

Process Control

Key Markets

Alternative fuels
Biopharmaceuticals
Chemical & refining
Food & beverage
Marine & shipbuilding
Medical & dental
Microelectronics
Nuclear Power
Offshore oil exploration
Oil & gas
Pharmaceuticals
Power generation
Pulp & paper
Steel
Water/wastewater

Key Products

Analytical Instruments
Analytical sample conditioning products & systems
Chemical injection fittings & valves
Fluoropolymer chemical delivery fittings, valves & pumps
High purity gas delivery fittings, valves, regulators & digital flow controllers
Industrial mass flow meters/controllers
Permanent no-weld tube fittings
Precision industrial regulators & flow controllers
Process control double block & bleeds
Process control fittings, valves, regulators & manifold valves

Sealing & Shielding

Key Markets

Aerospace
Chemical processing
Consumer
Fluid power
General industrial
Information technology
Life sciences
Microelectronics
Military
Oil & gas
Power generation
Renewable energy
Telecommunications
Transportation

Key Products

Dynamic seals
Elastomeric o-rings
Electro-medical instrument design & assembly
EMI shielding
Extruded & precision-cut, fabricated elastomeric seals
High temperature metal seals
Homogeneous & inserted elastomeric shapes
Medical device fabrication & assembly
Metal & plastic retained composite seals
Shielded optical windows
Silicone tubing & extrusions
Thermal management
Vibration dampening

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