DunAn

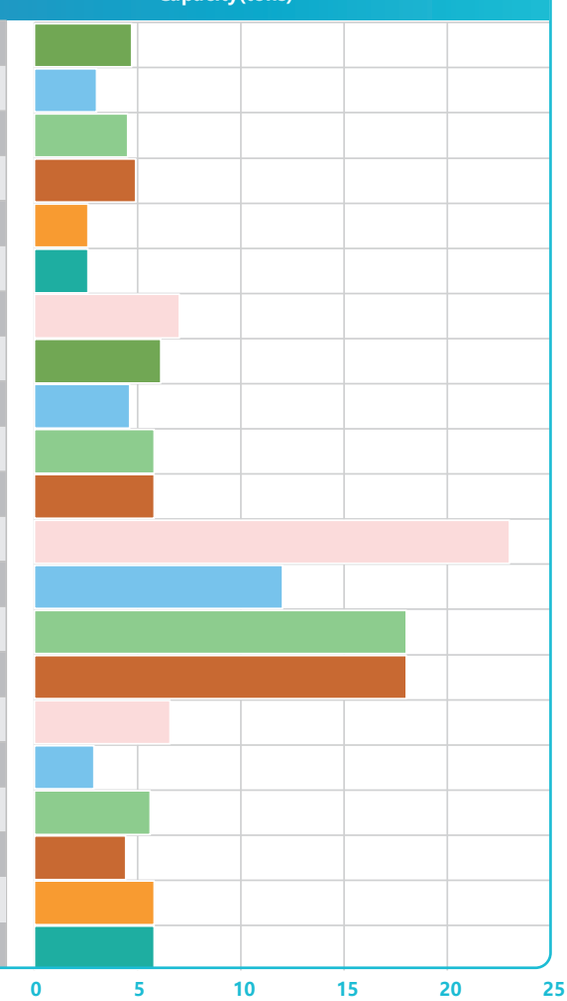
Components for Commercial Refrigration and Air Conditioning


DUN AN

Content

Thermal Expansion Valve Selection Sheet

Series	Refrigerant	Connection	Capacity(tons)
TA	R290	ODF	4.7
	R134a		3
	R22		4.5
	R407C		4.9
	R404A		2.6
	R507C		2.6
TCCE	R410A	ODF chatleff	7
	R290		6.1
	R134a		4.6
	R22		5.8
	R407C		5.8
TC	R410A	ODF	23
	R134a		12
	R22		18
	R407C		18
TI	R410A	ODF SAE	6.55
	R134a		2.87
	R22		5.6
	R407C		4.4
	R404A		5.8
	R507C		5.8



Thermal Expansion Valve

TA Series

DunAn TA/TAE Series thermostatic expansion valves are designed for smaller capacity air conditioning, heat pump, and refrigeration units. They regulate refrigerant flow to maintain superheat at the evaporator outlet.

Refrigerant
R22, R407C,R404A, R507C，R134a, R290

Medium Temp.
−40 ℉ ~ +158 ℉

Max. WP
493 psi

Max. Temp. of Bulb
212 ℉

Max. Temp. of Valve
230 ℉

Range of Superheat
0 ℉ ~ 14.4 ℉

Static Superheat Setting
4 K ± 1 K

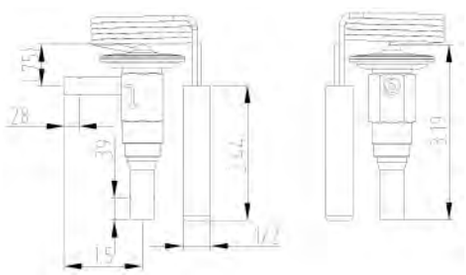
（N charging：Evaporating temperature −40 ℉ ~ +50 ℉, adjustable）

Technical data and ordering

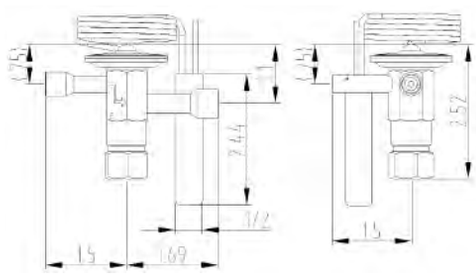
Refrigerant	Orifice size	Nominal Capacity		Connection	Part Number		
		TR	kW		Angle Internal equalizer	Straight Internal equalizer	Angle External equalizer
R407C	0	0.16	0.5	1/4*3/8	430011101000	430011111000	430011121000
	1	0.3	1.1	1/4*3/8	430011101100	430011111100	430011121100
	2	0.8	2.7	1/4*3/8	430011101200	430011111200	430011121200
	3	1.1	3.8	1/4*3/8	430011101300	430011111300	430011121300
	4	1.6	5.6	1/4*3/8	430011101400	430011101400	430011101400
	5	2.5	8.6	3/8*1/2	430011101500	430011111500	430011121500
	6	3.2	11.3	3/8*1/2	430011101600	430011111600	430011121600
	7	4.9	16.7	3/8*1/2	430011101700	430011111700	430011121700
R22	0	0.15	0.5	1/4*3/8	430011102000	430011112000	430011122000
	1	0.3	1	1/4*3/8	430011102100	430011112100	430011122100
	2	0.7	2.5	1/4*3/8	430011102200	430011112200	430011122200
	3	1	3.5	1/4*3/8	430011102300	430011112300	430011122300
	4	1.5	5.2	1/4*3/8	430011102400	430011112400	430011122400
	5	2.3	8	3/8*1/2	430011102500	430011112500	430011122500
	6	3	10.5	3/8*1/2	430011102600	430011112600	430011122600
	7	4.5	15.5	3/8*1/2	430011102700	430011112700	430011122700
R404A /R507C	0	0.11	0.38	1/4*3/8	430011103000	430011113000	430011123000
	1	0.21	0.7	1/4*3/8	430011103100	430011113100	430011123100
	2	0.45	1.6	1/4*3/8	430011103200	430011113200	430011123200
	3	0.6	2.1	1/4*3/8	430011103300	430011113300	430011123300
	4	1.2	4.2	1/4*3/8	430011103400	430011113400	430011123400
	5	1.7	6	3/8*1/2	430011103500	430011113500	430011123500
	6	2.2	7.7	3/8*1/2	430011103600	430011113600	430011123600
	7	2.6	9.1	3/8*1/2	430011103700	430011113700	430011123700
R134a	0	0.11	0.4	1/4*3/8	430011100000	430011110000	430011120000
	1	0.25	0.9	1/4*3/8	430011100100	430011110100	430011120100
	2	0.5	1.8	1/4*3/8	430011100200	430011110200	430011120200
	3	0.78	2.7	1/4*3/8	430011100300	430011110300	430011120300
	4	1.3	4.6	1/4*3/8	430011100400	430011110400	430011120400
	5	1.9	6.7	3/8*1/2	430011100500	430011110500	430011120500
	6	2.5	8.6	3/8*1/2	430011100600	430011110600	430011120600
	7	3	10.5	3/8*1/2	430011100700	430011110700	430011120700
R290	0	0.17	0.6	1/4*3/8	430011104000	430011114000	430011124000
	1	0.32	1.2	1/4*3/8	430011104100	430011114100	430011124100
	2	0.74	2.6	1/4*3/8	430011104200	430011114200	430011124200
	3	1.1	3.9	1/4*3/8	430011104300	430011114300	430011124300
	4	1.6	5.6	1/4*3/8	430011104400	430011114400	430011124400
	5	2.4	8.4	3/8*1/2	430011104500	430011114500	430011124500
	6	3.2	11.2	3/8*1/2	430011104600	430011114600	430011124600
	7	4.7	16.5	3/8*1/2	430011104700	430011114700	430011124700

Nominal capacity based on condensing temperature Tc = 89.6 ℉, evaporating temperature TE = 41 ℉, refrigerant temperature ahead of valve TI =82.4 ℉, static superheat tss = 4 K, opening superheat tos = 4 K.

Dimensions



Angle Type



Straight Type

Note: The standard length of capillary is 29.5 inch.

Thermal Expansion Valve

TCCE Series

DunAn TCCE Series thermostatic expansion valves are designed for residential and light commercial air conditioning systems and heat pumps, including roof top units and chillers. They regulate refrigerant flow to maintain superheat at the evaporator outlet. This series has an internal check valve in the refrigerant's flow path.

Refrigerant
R22, R407C, R410A, R134a, R290

Medium Temp.
−40 ℉ ~ +158 ℉

Max. WP
493 psi

Max. Temp. of Bulb
212 ℉

Max. Temp. of Valve
230 ℉

Range of Static Superheat
0 ℉ ~ 14.4 ℉

Static Superheat Setting
4 K ± 1 K

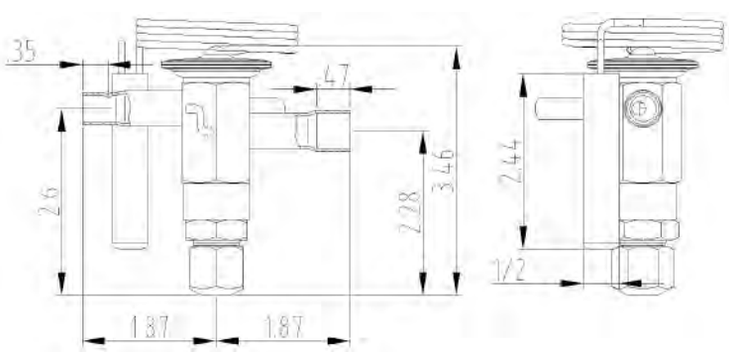
Technical data and ordering

(N charging: Evaporating temperature -40 ℉ ~ +50 ℉, adjustable)

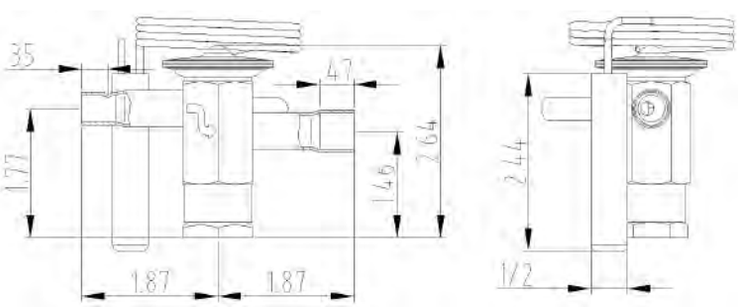
Refrigerant	Orifice size	Nominal Capacity		Connection	Equalizer	Model Number	Part Number	
		TR	kW				With Check Valve	Without Check Valve
R22/R407C	1	1.6	5.6	3/8 x1/2	1/4	TCCEX1.6	440040150300	440040160300
	2	2.1	7.4	3/8 x1/2	1/4	TCCEX2.1	440040250300	440040260300
	3	2.5	8.8	3/8 x1/2	1/4	TCCEX2.5	440040350300	440040360300
	4	2.9	10.2	3/8 x1/2	1/4	TCCEX2.9	440040450300	440040460300
	5	3.3	11.5	1/2 x5/8	1/4	TCCEX3.3	440040550700	440040560700
	6	4.1	14.4	1/2 x5/8	1/4	TCCEX4.1	440040650700	440040660700
	7	4.9	17.2	1/2 x5/8	1/4	TCCEX4.9	440040750700	440040760700
	8	5.8	20.3	1/2 x5/8	1/4	TCCEX5.8	440040850700	440040860700
R410A	1	2.0	7.0	3/8 x1/2	1/4	TCCEL2	440043150300	440043160300
	2	2.5	8.8	3/8 x1/2	1/4	TCCEL2.5	440043250300	440043260300
	3	3.0	10.5	3/8 x1/2	1/4	TCCEL3	440043350300	440043360300
	4	3.5	12.3	3/8 x1/2	1/4	TCCEL3.5	440043450300	440043460300
	5	4.0	14.0	1/2 x5/8	1/4	TCCEL4	440043550700	440043560700
	6	5.0	17.5	1/2 x5/8	1/4	TCCEL5	440043650700	440043660700
	7	6.0	21.0	1/2 x5/8	1/4	TCCEL6	440043750700	440043760700
	8	7.0	24.5	1/2 x5/8	1/4	TCCEL7	440043850700	440043860700
R134a	1	1.3	4.6	3/8 x1/2	1/4	TCCEN1.3	-	440041160300
	2	1.6	5.6	3/8 x1/2	1/4	TCCEN1.6	-	440041260300
	3	2.0	7.0	3/8 x1/2	1/4	TCCEN2	-	440041360300
	4	2.3	8.1	3/8 x1/2	1/4	TCCEN2.3	-	440041460300
	5	2.6	9.1	1/2 x5/8	1/4	TCCEN2.6	-	440041560700
	6	3.3	11.5	1/2 x5/8	1/4	TCCEN3.3	-	440041660700
	7	3.9	13.7	1/2 x5/8	1/4	TCCEN3.9	-	440041760700
	8	4.6	16.1	1/2 x5/8	1/4	TCCEN4.6	-	440041860700
R290	1	1.8	6.1	3/8 x1/2	1/4	TCCEP1.8	-	440045160300
	2	2.2	7.7	3/8 x1/2	1/4	TCCEP2.2	-	440045260300
	3	2.6	9.2	3/8 x1/2	1/4	TCCEP2.6	-	440045360300
	4	3.1	10.7	3/8 x1/2	1/4	TCCEP3.1	-	440045460300
	5	3.5	12.3	1/2 x5/8	1/4	TCCEP3.5	-	440045560700
	6	4.4	15.3	1/2 x5/8	1/4	TCCEP4.4	-	440045660700
	7	5.3	18.4	1/2 x5/8	1/4	TCCEP5.3	-	440045760700
	8	6.1	21.5	1/2 x5/8	1/4	TCCEP6.1	-	440045860700

Nominal capacity based on condensing temperature T_C = 100.4 ℉, evaporating temperature T_E = 39.2 ℉, refrigerant temperature ahead of valve T_I =98.6 ℉, static superheat t_{ss} = 4 K, opening superheat t_{os} = 4 K, subcooling t_{sc} = 1 K.

Dimensions



Adjustable Type



Unadjustable Type

Note: The standard length of capillary is 59 inch.

Thermal Expansion Valve

TCE Series

DunAn TCE/TCBE Series thermostatic expansion valves are designed for bus and commercial air conditioning systems, heat pumps, and chillers. They regulate refrigerant flow to maintain superheat at the evaporator outlet.

Refrigerant
R22, R407C, R410A, R134a

Medium Temp.
−40 ℉ ~ +158 ℉

Max. WP
667 psig

Max. Temp. of Bulb
212 ℉

Max. Temp. of Valve
230 ℉

Range of Static Superheat
0 ℉ ~ 14.4 ℉

Static Superheat Setting
4 K ± 1 K

Technical data and ordering

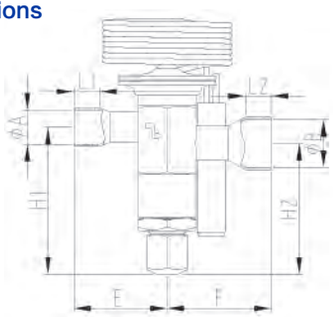
(N charging: Evaporating temperature -40 ℉ ~ +50℉, adjustable)

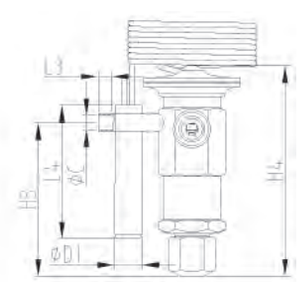
Refrigerant	Nominal Capacity TR	Nominal Capacity kW	Connection	Equalizer	Model Number	Part Number
R22	4	14	1/2×7/8	1/4	TCEX4-031-00-N	440011022100
	6	20	1/2×5/8		TCEX6-041-00-N	440011012200
			1/2×7/8		TCEX6-051-00-N	440011022200
			5/8×7/8		TCEX6-061-00-N	440011032200
	7.5	27	5/8×7/8		TCEX7.5-071-00-N	440011032300
	11	38	5/8×7/8		TCEX11-081-00-N	440011032400
			5/8×1-1/8		TCEX11-091-00-N	440011042400
	12	43	5/8×7/8		TCBEX12-001-00-N	440011032500
			5/8×1-1/8		TCBEX12-002-00-N	440011042500
	15	54	5/8×1-1/8		TCBEX15-003-00-N	440011042600
			7/8×1-1/8		TCBEX15-004-00-N	440011102600
	18	63	7/8×1-1/8		TCBEX18-005-00-N	440011102700
			7/8×1-3/8		TCBEX18-006-00-N	440011112700
R410A	4.5	16	1/2×7/8	1/4	TCEL4.5-131-00-N	440011025100
	6.5	24	1/2×5/8		TCEL6.5-141-00-N	440011015200
			1/2×7/8		TCEL6.5-151-00-N	440011025200
			5/8×7/8		TCEL6.5-161-00-N	440011035200
	9	32	5/8×7/8		TCEL9-171-00-N	440011035300
	13	45	5/8×7/8		TCEL13-181-00-N	440011035400
			5/8×1-1/8		TCEL13-191-00-N	440011045400
	15	54	5/8×7/8		TCBEL15-101-00-N	440011035500
			5/8×1-1/8		TCBEL15-102-00-N	440011045500
	19	68	5/8×1-1/8		TCBEL19-103-00-N	440011045600
			7/8×1-1/8		TCBEL19-104-00-N	440011105600
	23	79	7/8×1-1/8		TCBEL23-105-00-N	440011105700
			7/8×1-3/8		TCBEL23-106-00-N	440011115700

Refrigerant	Nominal Capacity TR	Nominal Capacity kW	Connection	Equalizer	Model Number	Part Number
R134a	2.5	8	1/2×7/8	1/4	TCEN2.5-321-00-N	440011020100
	3.5	12	1/2×5/8		TCEN3.5-331-00-N	440011010200
			1/2×7/8		TCEN3.5-341-00-N	440011020200
			5/8×7/8		TCEN3.5-361-00-N	440011030200
	4.5	17	5/8×7/8		TCEN4.5-361-00-N	440011030300
	7	24	5/8×7/8		TCEN7-371-00-N	440011030400
			5/8×1-1/8		TCEN7-381-00-N	440011040400
	8	29	5/8×7/8		TCBEN8-301-00-N	440011030500
			5/8×1-1/8		TCBEN8-302-00-N	440011040500
	10	37	5/8×1-1/8		TCBEN10-303-00-N	440011040600
			7/8×1-1/8		TCBEN10-304-00-N	440011100600
	12	44	7/8×1-1/8		TCBEN12-305-00-N	440011100700
			7/8×1-3/8		TCBEN12-306-00-N	440011110700
R407C	3.5	13	1/2×7/8	1/4	TCEZ3.5-231-00-N	440011021100
	5	19	1/2×5/8		TCEZ5-241-00-N	440011011200
			1/2×7/8		TCEZ5-251-00-N	440011021200
			5/8×7/8		TCEZ5-261-00-N	440011031200
	7	25	5/8×7/8		TCEZ7-271-00-N	440011031300
	10	36	5/8×7/8		TCEZ10-281-00-N	440011031400
			5/8×1-1/8		TCEZ10-291-00-N	440011041400
	12	42	5/8×7/8		TCBEZ12-201-00-N	440011031500
			5/8×1-1/8		TCBEZ12-202-00-N	440011041500
	15	53	5/8×1-1/8		TCBEZ15-203-00-N	440011041600
			7/8×1-1/8		TCBEZ15-204-00-N	440011101600
	18	62	7/8×1-1/8		TCBEZ18-205-00-N	440011101700
			7/8×1-3/8		TCBEZ18-206-00-N	440011111700

Nominal capacity based on condensing temperature T_C = 100.4 ℉, evaporating temperature T_E = 39.2 ℉, refrigerant temperature ahead of valve T_I =98.6 ℉, static superheat t_{ss} = 4 K, opening superheat t_{os} = 4 K, subcooling t_{sc} = 1 K.

Dimensions



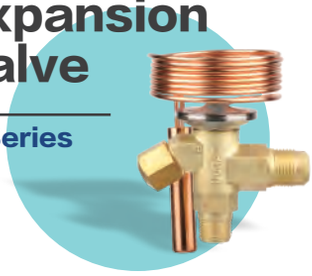


Model Number	ΦA x ΦB ODF	E inch	F inch	H1 inch	H2 inch	H3 inch	H4 inch	L1 inch	L2 inch	L3 inch	L4 inch	ΦD1 inch	ΦC inch	Weight Kg
TCE	3/8 x 5/8	1.71	1.71	2.68	2.38	2.80	3.84	0.47	0.47	0.24	2.44	1/2	1/4	1.06
	1/2 x 5/8													
	1/2 x 7/8	1.71	1.91											
	5/8 x 7/8													
	5/8 x 1-1/8	1.71	2.38						0.63					
TCBE	5/8 x 7/8	1.99	2.26	2.85	2.56	3.09	4.17	0.47	0.47	0.24	2.99	3/4	1/4	1.37
	5/8 x 1-1/8	1.99	2.38						0.63					
	7/8 x 1-1/8	2.26	2.38											
	7/8 x 1-3/8	2.26	2.58						0.79					

Note: The standard length of capillary is 59 inch.

Thermal Expansion Valve

TI Series



DunAn TI/TIE Series thermostatic expansion valves are designed for ice makers, refrigeration, and freezing systems. They regulate refrigerant flow to maintain superheat at the evaporator outlet. This series offers the option of changeable orifice set.

Refrigerant
R22, R407C, R410A, R134a, R404A, R507C

Medium Temp.
−40 ℉ ~ +158 ℉

Max. WP
667 psi

Max. Temp. of Bulb
212 ℉

Max. Temp. of Valve
230 ℉

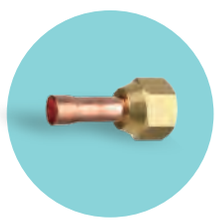
Range of Static Superheat
0 ℉ ~ 14.4 ℉

Static Superheat Setting
4 K ± 1 K

Technical data and ordering

Refrigerant	Model Number	Equalizer	Inlet	Connection				Part Number
				Outlet		Equalizer		-40 ~ +10℃
				SOLDER	FLARE	SOLDER	FLARE	
R22	TIX	Internal	3/8	1/2		1/4		430000080300
					1/2		1/4	430000070300
	TIEX	External		1/2		1/4		430000080400
					1/2		1/4	430000070400
R407C	TIZ	Internal	3/8	1/2		1/4		430005080500
					1/2		1/4	430005070500
	TIEZ	External		1/2		1/4		430005080600
					1/2		1/4	430005070600
R134a	TIN	Internal	3/8	1/2		1/4		430001080100
					1/2		1/4	430001070300
	TIEN	External		1/2		1/4		430001080200
					1/2		1/4	430001070400
R404A/ R507C	TIS	Internal	3/8	1/2		1/4		430002080700
					1/2		1/4	430002070300
	TIES	External		1/2		1/4		430002080800
					1/2		1/4	430002070400
R410A	TIL	Internal	3/8	1/2		1/4		430003080100
					1/2		1/4	430003070100
	TIEL	External		1/2		1/4		430003080200
					1/2		1/4	430003070200

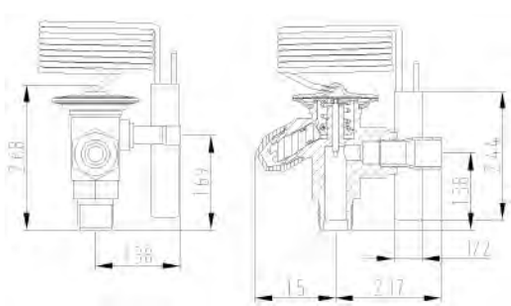
Nominal capacity based on condensing temperature T_C = 100.4 ℉, evaporating temperature T_E = 40 ℉, refrigerant temperature ahead of valve T_I =98.6 ℉, static superheat t_{ss} = 5 K, opening superheat t_{os} = 6 K.



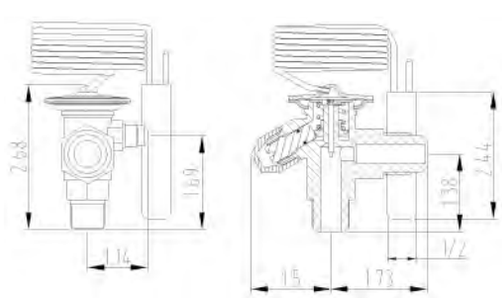
Solder Adaptor Ordering

Connection	Ordering Code
3/8 in.	434900080001
10mm	434900080000

Orifice ordering



ODF Type



SAE Type

Note: The standard length of capillary is 59 inch.

Orifice ordering

Orifice size	R22		R407C		R134a		R404A/R507C		R410A		Part Number
	kW	TR	kW	TR	kW	TR	kW	TR	kW	TR	
0X	0.9	0.25	0.96	0.27	0.68	0.19	0.65	0.18	1.05	0.29	433900000001
00	1.78	0.51	1.87	0.53	1.2	0.34	1.3	0.37	2.08	0.60	433900000002
01	3.48	0.99	3.67	1.04	2.08	0.59	2.64	0.75	4.07	1.16	433900000003
02	4.72	1.34	4.96	1.41	2.55	0.73	3.7	1.05	5.52	1.57	433900000004
03	8.01	2.27	8.45	2.4	4.3	1.22	6.29	1.79	9.37	2.66	433900000005
04	12.2	3.45	12.9	3.67	6.4	1.82	9.97	2.83	14.27	4.04	433900000006
05	16.8	4.76	17.1	4.86	8.43	2.4	13.1	3.71	19.66	5.57	433900000007
06	19.7	5.6	20.5	5.82	10.1	2.87	15.6	4.42	23.05	6.55	433900000008

Electronic Expansion Valve

B Series

DunAn B Series electronic expenasion valves are designed for residential air conditioningers, ligt commercial air conditionners, Multi−Split systems, Multi−function VRV/VRF systems, heat pumps and heat pump water heaters, as well as some special applications like bus and coach air condi−tioners and data center air conditionning systems.

Refrigerant
R22, R407C, R410A, R32, R134a

Medium Temp.
−22 ℉ ~ 158 ℉

Max. WP
653 psi

Technical Data

Model Number	Orifice	Opening pulse	Internal Leakage	Reverse OPD	MOPD
	mm		ml/min	psi	psi
DPF(B)1.0	1.0	30±20	≤600	≥319	507.6
DPF(B)1.3	1.3				
DPF(B)1.65	1.65				
DPF(B)1.8	1.8				
DPF(B)2.0	2.0				
DPF(B)2.2	2.2				
DPF(B)2.4	2.4				
DPF(B)2.8	2.8		≤1000	≥217.6	
DPF(B)3.0	3.0				
DPF(B)3.2	3.2				
DPF(B)3.5C -H	3.5	32±20	≤1500	≥101.5	
DPF(B)4.0C -H	4.0				
DPF(B)4.0C -M					
DPF(B)4.5C -H	4.5				
DPF(B)4.5C -M					
DPF(B)5.5C -M	5.5				
DPF(B)6.5C -M	6.5				

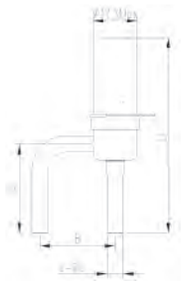
Nominal Capacity

Model Number	Orifice	R 134a		R404A		R407 C		R 410A		R 32	
	mm	Tons	kW	Tons	kW	Tons	kW	Tons	kW	Tons	kW
DPF (B) 1.0	1.0	0.7	2.3	0.6	2.1	0.9	3.1	1.0	3.5	1.7	6.0
DPF (B) 1.3	1.3	1.1	4.1	1.0	3.7	1.5	5.4	1.7	6.2	2.89	10.1
DPF (B) 1.65	1.65	1.9	6.7	1.7	6.0	2.5	8.8	2.8	10.0	4.66	16.3
DPF (B) 1.8	1.8	2.3	8.1	2.0	7.3	3.0	10.6	3.4	12.1	5.6	19.6
DPF (B) 2.0	2.0	2.8	9.8	2.5	8.9	3.6	12.9	4.2	14.8	6.89	24.1
DPF (B) 2.2	2.2	3.3	11.8	3.0	10.7	4.4	15.6	5.0	17.8	8.29	29.0
DPF (B) 2.4	2.4	4.0	14.1	3.6	12.7	5.2	18.5	6.0	21.2	9.89	34.6
DPF (B) 2.8	2.8	5.4	19.2	4.9	17.3	7.2	25.2	8.2	28.9	13.5	47.1
DPF (B) 3.0	3.0	6.0	21.0	5.4	18.9	7.8	27.5	9.0	31.5	14.7	51.3
DPF (B) 3.2	3.2	6.4	22.6	5.8	20.3	8.4	29.6	9.6	33.9	15.8	55.3
DPF (B) 3.5	3.5	7.0	24.8	6.4	22.6	9.1	32.0	10.9	38.5	17.8	62.7
DPF (B) 4.0	4.0	9.2	32.3	8.4	29.4	11.9	42.0	14.3	50.4	23.3	82.1
DPF (B) 4.5	4.5	11.5	40.4	10.5	36.8	14.9	52.5	17.9	63.0	29.2	102.7
DPF (B) 5.5	5.5	15.4	53.9	1 4.0	49.0	19.9	70.0	23.9	84.0	39.1	136.9
DPF (B) 6.5	6.5	23.0	80.9	20.9	73.5	29.9	105.0	35.8	126.0	58.7	205.4

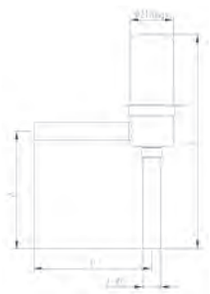
Working condition : Valve fully open, Condensing Temperature Tc=100 ° F, Evaporating Temperature Te=41 ° F, Superheat Degree △Tsh=0 K, Subcooling Degree △Tsc=0 K

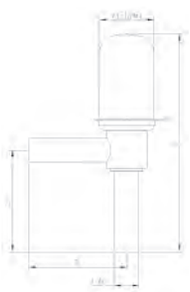
Dimensions

Model Number	Part Number	Figure	Orifice	A	B	C	D	Weight	Coil
			mm	inch	inch	inch	inch	lbs	
DPF(B)1.0 -101	310011101700	A	1.0	1.38	1.18	1/4	3.03	1.77	DPFX07
DPF(B)1.0 -103	310011100900	A							
DPF(B)1.0 -105	310011100400	B		1.50	1.50		3.15	1.75	
DPF(B)1.0 -106	310011101000	B							
DPF(B)1.3 -101	310012003000	A	1.3	1.38	1.18		3.03	1.77	
DPF(B)1.3 -103	310012009600	A							
DPF(B)1.3 -105	310012002900	B		1.50	1.50		3.15	1.75	
DPF(B)1.3 -106	310012005700	B							
DPF(B)1.65 -101	310001127600	A	1.65	1.38	1.18		3.03	1.77	
DPF(B)1.65 -103	310001129900	A							
DPF(B)1.65 -105	310001116800	B		1.50	1.50		3.15	1.75	
DPF(B)1.65 -106	310001120100	B							
DPF(B)1.8 -101	310006114700	A	1.8	1.38	1.18		3.03	1.77	
DPF(B)1.8 -103	310006114800	A							
DPF(B)1.8 -105	310006106400	B		1.50	1.50		3.15	1.75	
DPF(B)1.8 -106	310006108600	B							
DPF(B)2.0 -101	310007137200	A	2.0	1.38	1.18		3.03	1.77	
DPF(B)2.0 -103	310007137300	A							
DPF(B)2.0 -105	310007132400	B		1.50	1.50		3.15	1.75	
DPF(B)2.0 -106	310007134100	B							
DPF(B)2.2 -101	310002001000	A	2.2	1.38	1.18		3.03	1.77	
DPF(B)2.2 -103	310002005100	A							
DPF(B)2.2 -105	310002003600	B		1.50	1.50		3.15	1.75	
DPF(B)2.2 -106	310002001700	B							
DPF(B)2.4 -101	310003207500	A	2.4	1.38	1.18		3.03	1.77	
DPF(B)2.4 -103	310003207600	A							
DPF(B)2.4 -105	310003201900	B		1.50	1.50		3.15	1.75	
DPF(B)2.4 -106	310003203500	B							
DPF(B)2.8 -101	310008002900	A	2.8	1.57	1.38	5/16	3.23	1.94	
DPF(B)2.8 -103	310008003000	A							
DPF(B)2.8 -105	310008000800	B		1.85	1.97		3.50	1.89	
DPF(B)2.8 -106	310008003100	B							
DPF(B)3.0 -101	310004003600	A	3.0	1.57	1.38		3.23	1.94	
DPF(B)3.0 -103	310004003700	A							
DPF(B)3.0 -105	310004003800	B		1.85	1.97		3.50	1.89	
DPF(B)3.0 -106	310004003900	B							
DPF(B)3.2 -101	310009004300	A	3.2	1.57	1.38		3.23	1.94	
DPF(B)3.2 -103	310009004600	A							
DPF(B)3.2 -105	310009000800	B		1.85	1.97		3.50	1.89	
DPF(B)3.2 -106	310009001800	B							
DPF(B)3.5C - H001	310126000100	C	3.5	2.36	2.36	3/8	4.29	3.39	DPFX09
DPF(B)4.0C - H001	310117000400	C	4.0						
DPF(B)4.5C - H001	310118000200	C	4.5						
DPF(B)4.0C - M002	310017002000	D	4.0	2.59	2.48	5/8	5.56	9.65	DPFX10
DPF(B)4.5C - M002	310018000900	D	4.5						
DPF(B)5.5C - M002	310020000700	D	5.5						
DPF(B)6.5C - M002	310022000700	D	6.5						

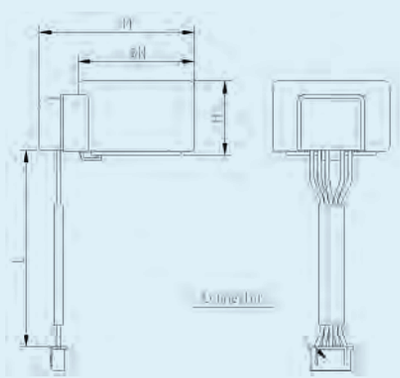

A


B


C


D

Coil



Model Number	Part Number	L	H	M	N	Number of wire	Connector	Weight
		inch	inch	inch	inch			lbs.
DPFX07-137	310714003200	35.4	24.5	51.3	38.5	5	XHP-5	0.241
DPFX07-043	310701128600	35.4				6	XHP-6	0.249
DPFX07-101	310701130000	59.1				5	XHP-5	0.282
DPFX07-037	310701138900	78.7				5	XHP-5	0.320
DPFX07-118	310701133500	78.7				6	XHP-6	0.334
DPFX09-001	310718000900	78.7	28.2	59.0	46.0	5	XHP-5	0.421
DPFX09-013	310740005100	78.7				6	XHP-6	0.437
DPFX09-004	310718001000	157.5				5	XHP-5	0.562
DPFX09-008	310740005000	157.5				6	XHP-6	0.595
DPFX10-002	310740002000	78.7	40.5	82.3	67.7	5	XHP-5	0.955
DPFX10-013	310740004900	78.7				6	XHP-6	0.980
DPFX10-004	310740000600	157.5				5	XHP-5	1.105
DPFX10-008	310722000100	157.5				6	XHP-6	1.138

Note: Connector and cable length can be customized

Check Valve

CV Series

DunAn CV Series check valves use a built−in piston to control the correct refrigerant flow direction in liquid, suction, and hot gas lines for commercial refrigeration and air conditioning systems.

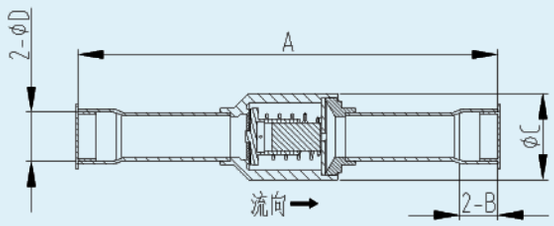
Refrigerant
R22, R407C, R410A, R32, R134a, R290, R404A

Medium Temp.
−22 ℉ ~ 266 ℉

Ambient Temp.
−22 ℉ ~ 158 ℉

Max. WP
653 psi

Dimensions



Model Number	A	B	C	D	Cv	Min. OPD	Weight	Part Number
	inch	inch	inch	inch		psi	lbs.	
CV12S	5.16	0.394	8.66	1/2	2.39	7.25	0.2	260610000501
CV16S	5.51	0.472	11	5/8	3.5		0.37	260527000101
CV19S	6.5	0.59	13.39	3/4	6.4		0.52	260610001801

Check Valve

FDM Series

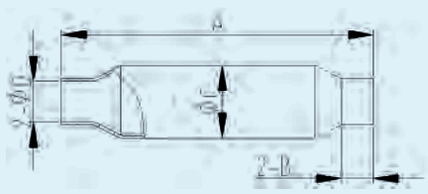
DunAn FDM Series check valves feature a self−closing design with a magnetic diaphragm and metal sealing structure, which allows any installation angle.

Refrigerant
R22, R407C, R410A
R134a, R290, R404A

Medium Temp.
−22 ℉ ~ 158 ℉

Max. WP
<5/8inch: 725 psi
3/4 inch~1−1/8 inch: 653 psi
>1−3/8 inch: 507 psi

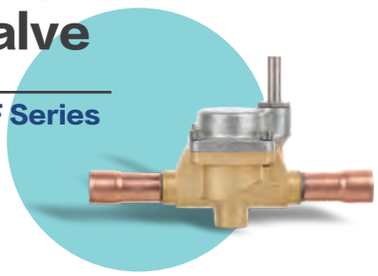
Dimensions



Model Number	A	B	C	D	Cv	Min. OPD	Weight	Part Number
	inch	inch	inch	inch		psi	lbs.	
FDM 0702	4	0.394	0.88	1/4	0.76	1.45	0.18	260510000101
FDM 0703	3.94	0.394	0.88	3/8	1.5	1.45	0.19	260511000101
FDM 0904	5	0.55	1.12	1/2	2.9	1.45	0.33	260512000101
FDM 0905	5	0.61	1.12	5/8	3.3	1.45	0.31	260513000101
FDM 0906	5	0.55	1.12	3/4	3.7	1.45	0.31	260514000101
FDM 0907	5	0.7	1.12	7/8	4.1	1.45	0.35	260523000101
FDM 1107	7	0.59	1.38	7/8	4.4	1.45	0.71	260515000101
FDM 1406	7	0.7	1.61	3/4	5.3	2.9	0.77	260524000101
FDM1407	7	0.83	1.61	7/8	8.4	2.9	0.77	260533000101
FDM 1409	8.1	0.7	1.61	1-1/8	15.3	2.9	1.1	260516000101
FDM 1709	8.4	1	2.13	1-1/8	16.9	2.9	1.54	260517000101
FDM 2111	9.4	1.02	2.64	1-3/8	22.2	2.9	2.43	260518000101
FDM 2113	10.5	1.1	3.15	1-5/8	37.3	4.35	2.43	260519000101
FDM 2817	12	1.34	3.62	2-1/8	65.4	7.25	5.3	260520000101
FDM 3321	13	1.5	4.13	2-5/8	75.9	7.25	7.72	260521000101
FDM 3325	13	1.73	4.13	3-1/8	87.5	7.25	7.72	260522000101

Solenoid Valve

FDF Series



DunAn FDF Series solenoid valves are designed to activate or cut off refrigerant flow in heat pump, air conditioning, and refrigeration systems. These can be used in gas or liquid lines and in the high or low side.

Refrigerant
R22, R407C, R410A, R134a, R404A, R507

Medium Temp.
−22 ℉ ~ 221 ℉

Max. WP
FDF2A ~ FDF10A: 653 psi
FDF15A ~ FDF40A: 623 psi

Nominal Capacity

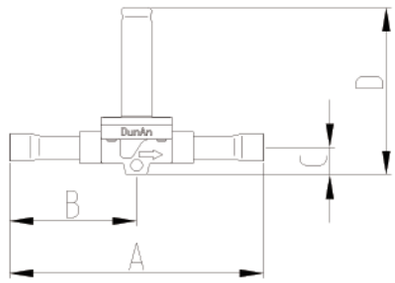
Model Number	Rated Capacity [tons]								
	Liquid			Suction			Hot		
	R22	R134a	R410A	R22	R134a	R410A	R22	R134a	R410A
FDF2A	0.9	0.8	1.0	/	/	/	0.4	0.3	0.5
FDF3A	1.5	1.4	1.6	/	/	/	0.7	0.6	0.9
FDF6A	4.5	4.3	4.8	0.5	0.4	0.6	2.1	1.7	2.5
FDF10A	10.8	10.0	11.4	1.2	0.9	1.5	5.1	4.0	6.0
FDF15A	14.8	13.6	15.6	1.7	1.2	2.0	6.8	5.4	8.1
FDF20A	28.7	30.4	34.4	3.7	2.6	4.4	15.1	12.2	16.0
FDF22A	42.9	39.2	45.5	5.1	3.4	5.4	19.6	15.6	20.7
FDF25A	57.2	52.9	61.1	6.5	4.6	7.9	26.2	20.8	31.3
FDF32A	91.6	84.4	98.1	10.5	7.4	12.7	42.1	33.3	50.0
FDF40A	143.0	131.9	152.1	16.2	11.6	19.6	65.7	52.0	78.2

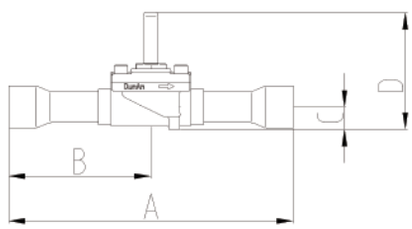
Coil

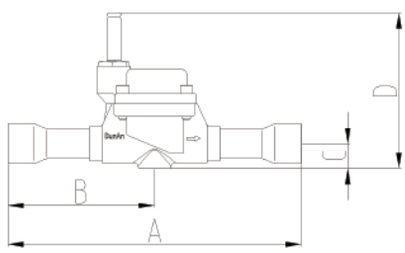
Model Number	Supply	Rated Voltage V	Voltage Tolerance	Power VA/W	Frequency	Wiring Type	Insulation Class	Protection Class	Part Number
FDFX01-1001	AC	110	85% ~ 110%	16VA	50/60 Hz	DIN Plug	F	IP65	FDFX01-1001
FDFX01-1002	AC	220	85% ~ 110%	16VA	50/60 Hz				FDFX01-1002
FDFX01-1003	AC	380	85% ~ 110%	16VA	50/60 Hz				FDFX01-1003
FDFX01-1004	AC	24	85% ~ 110%	16VA	50/60 Hz				FDFX01-1004
FDFX01-1005	AC	265	85% ~ 110%	16VA	50/60 Hz				FDFX01-1005
FDFX01-1006	AC	36	85% ~ 110%	16VA	50/60 Hz				FDFX01-1006
FDFX03-1001	DC	12	95% ~ 105%	13W	/				FDFX03-1001
FDFX03-1002	DC	24	95% ~ 105%	18W	/				FDFX03-1002

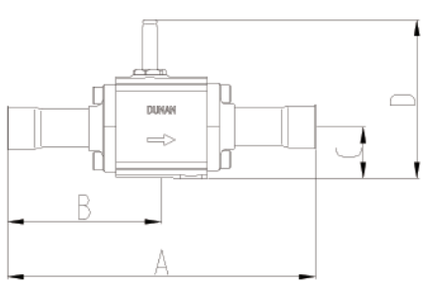
Dimensions

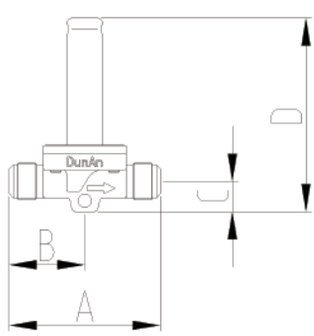
Model Number	Normal position	Actuation	Connection		A	B	C	D	Part Number	Weight
			inch	mm	inch	inch	inch	inch		lbs.
FDF2A-1001	NC	Direct	1/4	/	4.0	2.0	0.5	4.0	FDF2A-1001	0.31
FDF2A-1002	NC	Direct	/	6	4.0	2.0	0.5	4.0	FDF2A-1002	0.31
FDF2A-2001	NC	Direct	1/4	6	2.3	1.1	0.5	2.3	FDF2A-2001	0.31
FDF3A-1001	NC	Direct	1/4	/	4.0	2.0	0.5	4.0	FDF3A-1001	0.33
FDF3A-1002	NC	Direct	3/8	/	4.3	2.1	0.5	4.3	FDF3A-1002	0.33
FDF3A-1005	NC	Direct	/	6	4.3	2.1	0.5	4.3	FDF3A-1005	0.33
FDF3A-1006	NC	Direct	/	10	4.3	2.1	0.5	4.3	FDF3A-1006	0.33
FDF3A-2001	NC	Direct	1/4	6	2.3	1.1	0.5	2.3	FDF3A-2001	0.33
FDF3A-2002	NC	Direct	3/8	10	2.5	1.3	0.5	2.5	FDF3A-2002	0.33
FDF6A-1001	NC	Servo	3/8	/	4.4	2.2	0.5	4.4	FDF6A-1001	0.48
FDF6A-1002	NC	Servo	1/2	/	5.0	2.5	0.5	5.0	FDF6A-1002	0.48
FDF6A-1003	NC	Servo	/	10	5.0	2.5	0.5	5.0	FDF6A-1003	0.48
FDF6A-1004	NC	Servo	/	12	5.0	2.5	0.5	5.0	FDF6A-1004	0.48
FDF6A-2001	NC	Servo	3/8	10	2.8	1.4	0.5	2.8	FDF6A-2001	0.48
FDF6A-2002	NC	Servo	1/2	12	2.9	1.5	0.5	2.9	FDF6A-2002	0.48
FDF10A-1001	NC	Servo	1/2	/	5.0	2.5	0.7	5.0	FDF10A-1001	0.84
FDF10A-1002	NC	Servo	5/8	/	6.1	3.1	0.7	6.1	FDF10A-1002	0.84
FDF10A-1004	NC	Servo	/	12	5.0	2.5	0.7	5.0	FDF10A-1004	0.84
FDF10A-2001	NC	Servo	1/2	12	3.4	1.7	0.7	3.4	FDF10A-2001	0.84
FDF10A-2002	NC	Servo	5/8	16	3.6	1.8	0.7	3.6	FDF10A-2002	0.86
FDF15A-1003	NC	Servo	5/8	/	6.5	3.3	0.7	6.5	FDF15A-1003	1.36
FDF15A-1004	NC	Servo	3/4	/	6.5	3.3	0.7	6.5	FDF15A-1004	1.36
FDF15A-1005	NC	Servo	7/8	/	6.9	3.5	0.7	6.9	FDF15A-1005	1.36
FDF15A-2001	NC	Servo	5/8	16	4.0	2.0	0.7	4.0	FDF15A-2001	1.36
FDF15A-2002	NC	Servo	7/8	22	4.2	2.1	0.7	4.2	FDF15A-2002	1.36
FDF20A-1001	NC	Servo	3/4	/	7.2	3.6	0.8	7.2	FDF20A-1001	2.71
FDF20A-1002	NC	Servo	7/8	/	7.2	3.6	0.8	7.2	FDF20A-1002	2.71
FDF20A-1003	NC	Servo	1-1/8	/	9.1	4.6	0.8	9.1	FDF20A-1003	2.77
FDF20A-1005	NC	Servo	/	28	9.1	4.6	0.8	9.1	FDF20A-1005	2.77
FDF22A-1001	NC	Servo	1-3/8	/	10.2	5.1	0.8	10.2	FDF22A-1001	2.77
FDF25A-1001	NC	Servo	1-1/8	/	10.1	5.0	0.9	10.1	FDF25A-1001	5.72
FDF25A-1002	NC	Servo	1-3/8	/	11.1	5.6	0.9	11.1	FDF25A-1002	5.72
FDF25A-1003	NC	Servo	/	28	10.1	5.0	0.9	10.1	FDF25A-1003	5.72
FDF32A-1001	NC	Servo	1-3/8	/	11.1	5.6	1.9	11.1	FDF32A-1001	9.0
FDF32A-1002	NC	Servo	1-5/8	/	11.1	5.6	1.9	11.1	FDF32A-1002	9.0
FDF32A-1003	NC	Servo	/	35	11.1	5.6	1.9	11.1	FDF32A-1003	9.0
FDF32A-1004	NC	Servo	/	42	11.1	5.6	1.9	11.1	FDF32A-1004	9.0
FDF40A-1001	NC	Servo	1-5/8	/	11.1	5.6	1.9	11.1	FDF40A-1001	9.24
FDF40A-1002	NC	Servo	2-1/8	/	11.1	5.6	1.9	11.1	FDF40A-1002	9.24
FDF40A-1003	NC	Servo	/	42	11.1	5.6	1.9	11.1	FDF40A-1003	9.24











Service Valve

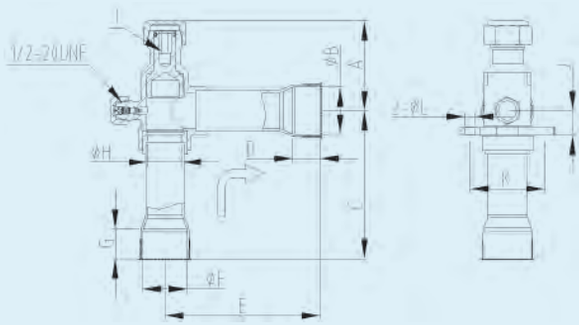
FJ Series

DunAn FJ and SFJI Series service valves are designed to shut off refrigerant flow between indoor and outdoor units or with split air conditioners. These can be used for refrigerant vacuuming or charging during equipment inspection and service.

Refrigerant
R22, R407C, R410A, R134a, R404A

Medium Temp.
−22 ℉ ~ 248 ℉

Max. WP
623 psi



Model Number	A	B	C	D	E	F	G	H	I	J	K	Part Number
	inch	inch	inch	inch	inch	inch	inch	inch	mm	inch	inch	
FJ - 0157 - DG20 - R410A	1.91	0.77	3.15	/	5.91	0.87	0.55	0.75	S8	0.98	2.05	280020015703
FJ - 0031 - DG25 - R410A	2.36	0.91	3.35	/	6.50	0.98	0.59	0.91	S8	0.59	2.13	280025003103
FJ - 0029 - DG28 - R410A	2.40	1.13	3.41	0.59	3.43	1.13	0.59	0.98	S8	0.65	2.13	280028002902
FJ - 0003 - DG32 - R410A	3.27	1.26	4.07	0.79	3.78	1.26	0.79	1.26	S8	1.24	2.56	280032000300
FJ - 0008 - DG35 - R410A	3.27	1.51	4.39	0.79	4.09	1.51	0.79	1.26	S8	1.24	2.56	280035000800

Ball Valve

FQ Series

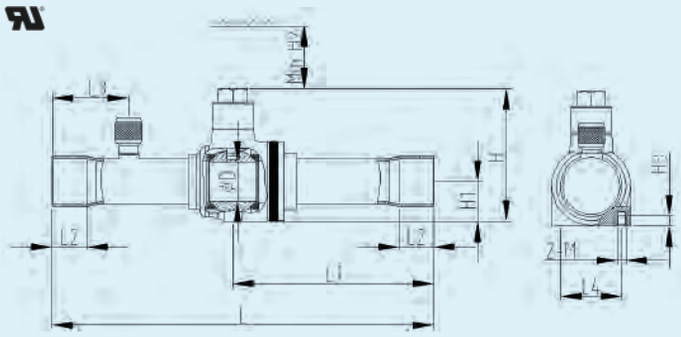
DunAn FQ Series ball valves are designed to manually open or close refrigerant flow in refrigeration and air conditioning systems. These can be used in the liquid line, suction line, or hot gas line, and are available with or without an access port.

Refrigerant
R22, R407C, R410A, R134a, R290, R404A

Medium Temp.
−22 ℉ ~ 248 ℉

Ambient Temp.
−40 ℉ ~ 158 ℉

Max. WP
DN4 ~ DN20：710 psi
DN25 ~ DN75：623 psi



Model Number	Connection	D	L	L1	L2	L3	L4	H	H1	H2	H3	T thread
	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	
DN4	1/4	0.394	6.106	3.264	0.315	/	0.630	2.047	0.650	0.827	0.197	M5×0.8
DN8	3/8	0.394	5.453	2.937	0.394	1.142	0.630	2.047	0.650	0.827	0.197	M5×0.8
DN10	1/2	0.394	5.453	2.937	0.394	1.142	0.630	2.047	0.650	0.827	0.197	M5×0.8
DN13	5/8	0.492	6.299	3.346	0.492	1.220	0.748	2.087	0.630	0.827	0.197	M5×0.8
DN15	3/4	0.591	6.319	3.331	0.669	1.339	0.925	2.165	0.669	0.945	0.197	M5×08
DN20	7/8	0.748	7.264	3.819	0.669	1.457	1.161	2.598	0.760	0.945	0.197	M5×0.8
DN25	1-1/8	0.945	8.189	4.291	0.866	1.732	1.457	3.071	0.906	0.945	0.197	M5×0.8
DN32	1-3/8	1.260	9.890	5.224	0.984	2.047	1.693	3.606	1.181	1.102	0.197	M5×0.8
DN40	1-5/8	1.496	11.024	5.748	1.102	2.244	2.283	4.161	1.378	1.102	0.394	M6×1.0
DN50	2-1/8	1.969	12.008	6.201	1.378	2.402	3.071	4.921	1.772	1.102	0.394	M6×1.0
DN65	2-5/8	2.480	13.524	6.988	1.457	2.835	3.504	5.768	2.165	1.126	0.591	M10×1.0
DN75	3-1/8	2.913	16.063	8.189	1.654	3.110	4.488	6.969	2.638	1.126	0.591	M10×1.0

4 Way Reversing Valve

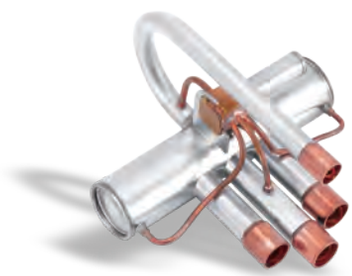
DSF Series

DunAn DSF Series 4-way reversing valves are designed for a range or heat pump systems. It changes the path of refrigerant flow by controlling a pilot valve that switches between cooling and heating modes.

Refrigerant
R22, R407C, R410A, R32, R290, R134a, R404A

Medium Temp.
−22 ℉ ~ 248 ℉

Max. WP
623 psi



Technical Data

Model Number	Orifice	Cv	Connection		OPD	
	mm		D	E,S,C	Max.	Min
			inch	inch	psi	psi
DSF -20-2200	15.5	9.3	1/2	3/4	464	43.5
DSF -20-2201	15.5	9.3	1/2	7/8		
DSF -20-2211	17.2	10.3	1/2	3/4		
DSF(S)-20 -4200 *	17.2	10.3	1/2	3/4		
DSF(S)-20 -4201 *	17.2	10.3	1/2	7/8		
DSF -34-4203	19.2	15.5	3/4	9/8		
DSF -34-4205	19.2	15.5	7/8	9/8		
DSF -34-2212	20.9	20.6	3/4	7/8		
DSF(S)-34 -4200 *	20	16.3	3/4	7/8		
DSF(S)-34 -4202 *	20	16.3	7/8	9/8		
DSF -38	23	21.2	7/8	9/8		
DSF -50	24	22.6	7/8	9/8		
DSF -70	26	33.6	1	5/4		
DSF -104	34.5	45.7	5/4	3/2		
DSF -140	41	68.4	3/2	7/4		
DSF -180	46.4	82.4	3/2	17/8		
DSF -210	50	93.8	2	21/8		

*: DFS(S) type use the stain steel material.

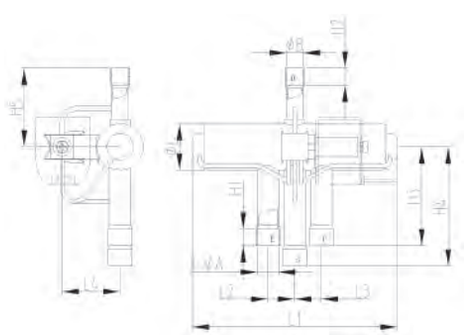
Nominal Capacity

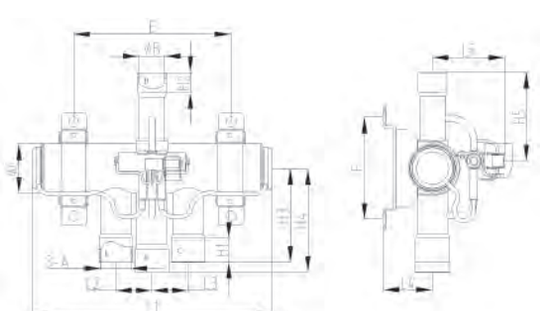
Model Number	Rated Capacity [tons] △P [psi]																							
	R134a				R404A				R407C				R410A				R32				R290			
	Cond.1		Cond. 2		Cond. 1		Cond. 2		Cond. 1		Cond. 2		Cond. 1		Cond. 2		Cond.1		Cond.2		Cond.1		Cond.2	
	1.5	3	1.5	3	1.5	3	1.5	3	1.5	3	1.5	3	1.5	3	1.5	3	1.5	3	1.5	3	1.5	3	1.5	3
DSF-20-2200	1.49	1.24	1.75	1.08	1.53	1.37	1.94	1.26	1.79	1.76	2.49	1.59	2.25	2.27	3.22	2.13	3.01	1.78	2.52	1.63	2.31	1.49	1.24	1.75
DSF-344203	2.71	2.27	3.20	1.97	2.79	2.50	3.53	2.30	3.25	3.21	4.54	2.89	4.09	4.14	5.86	3.87	5.47	3.23	4.57	2.97	4.21	2.71	2.27	3.20
DSF-38	3.73	3.12	4.42	2.72	3.85	3.45	4.88	3.18	4.49	4.43	6.27	4.00	5.65	5.72	8.08	5.34	7.55	4.47	6.32	4.11	5.81	3.73	3.12	4.42
DSF-50	4.11	3.45	4.87	3.00	4.24	3.80	5.38	3.50	4.95	4.88	6.91	4.40	6.23	6.30	8.91	5.89	8.33	4.92	6.96	4.53	6.40	4.11	3.45	4.87
DSF-70	4.94	4.13	5.84	3.60	5.09	4.57	6.45	4.20	5.94	5.87	8.29	5.28	7.47	7.55	10.69	7.07	9.99	5.91	8.36	5.43	7.69	4.94	4.13	5.84
DSF-105	8.09	6.77	9.57	5.90	8.33	7.47	10.58	6.88	9.72	9.61	13.59	8.66	12.24	12.39	17.51	11.58	16.37	9.68	13.70	8.90	12.59	8.09	6.77	9.57
DSF-140	10.97	9.19	12.99	8.00	11.32	10.15	14.35	9.33	13.20	13.04	18.44	11.75	16.62	16.81	23.77	15.71	22.21	13.14	18.58	12.08	17.09	10.97	9.19	12.99
DSF-180	14.03	11.74	16.60	10.22	14.45	12.97	18.33	11.93	16.87	16.66	23.56	15.01	21.23	21.48	30.37	20.07	28.39	16.79	23.75	15.43	21.83	14.03	11.74	16.60
DSF-210	15.97	13.36	18.90	11.64	16.46	14.76	20.88	13.58	19.21	18.98	26.83	17.10	24.19	24.46	34.57	22.86	32.31	19.12	27.04	17.58	24.86	15.97	13.36	18.90

Cond.1: T_C=100.4 ℉, T_E=41 ℉, $\triangle T_{sh}$=5 K, $\triangle T_{sc}$=0 K Cond.2: T_C=130 ℉, T_E=45 ℉, $\triangle T_{sh}$=5 K, $\triangle T_{sc}$=5 K

Dimensions

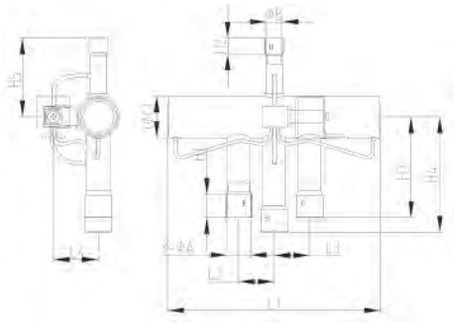
Model Number	A	B	C	L1	L2	L3	L4	H1	H2	H3	H4	H5	Part Number
	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	
DSF-20-2200	0.76	0.50	1.40	7.36	1.13	1.13	1.50	0.75	0.51	3.27	3.74	2.64	240120004600
DSF-20-2201	0.88	0.50	1.40	7.36	1.13	1.13	1.50	0.88	0.50	3.27	3.74	2.64	240120004500
DSF-34-4203	0.76	1.15	1.77	8.82	1.32	1.32	1.63	0.91	0.75	3.39	3.88	3.23	240134007000
DSF-34-4205	1.13	0.88	1.77	8.82	1.32	1.32	1.63	0.91	0.87	3.39	3.88	3.23	240134007100
DSF-34-2212	0.76	0.88	1.77	8.82	1.32	1.32	1.63	0.91	0.75	3.39	3.88	3.23	240134006800
DSF-50-2200	1.13	0.89	1.77	9.65	1.46	1.46	1.57	1.18	0.98	3.70	4.21	3.66	240150000100

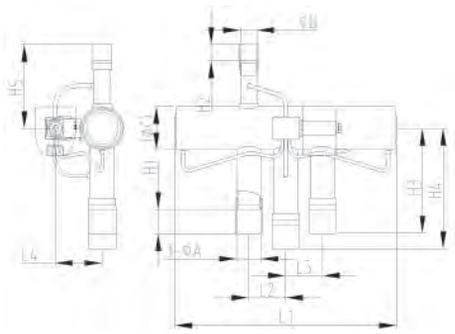




Model Number	A	B	C	L1	L2	L3	L4	L5	H1	H2	H3	H4	H5	E	F
	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch
DSF-70	1.25	1.00	2.40	11.81	1.77	1.77	2.20	3.54	1.18	0.98	4.57	5.08	4.59	7.72	4.72
DSF-105	1.50	1.50	2.40	11.81	1.77	1.77	2.20	3.54	1.18	0.98	4.57	5.08	4.59	7.72	4.72
DSF-140	1.75	1.50	3.28	15.08	2.28	2.28	2.56	3.54	1.57	1.38	4.61	6.57	5.50	9.06	6.54
DSF-180	2.13	1.50	3.28	15.08	2.28	2.28	2.56	3.54	1.57	1.57	5.79	7.76	5.50	9.06	6.54
DSF-210	2.63	1.63	3.28	18.90	2.81	2.81	2.56	3.54	1.57	1.30	5.79	7.82	5.34	10.31	6.54

Model Number	A	B	C	L1	L2	L3	L4	H1	H2	H3	H4	H5	Part Number
	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	
DSF(S)-20-4200	0.76	0.50	1.34	6.85	1.14	1.14	/	0.75	0.51	3.27	3.74	2.64	240120007800
DSF(S)-20-4201	0.88	0.50	1.34	6.85	1.14	1.14	/	0.75	0.51	3.27	3.74	2.64	240120009800
DSF(S)-34-4200	0.76	0.88	1.67	8.15	1.32	1.32	/	0.87	0.75	3.39	3.88	3.23	240134005400
DSF(S)-34-4202	0.88	1.13	1.67	8.15	1.32	1.32	/	0.91	0.87	3.39	3.88	3.23	240134006400

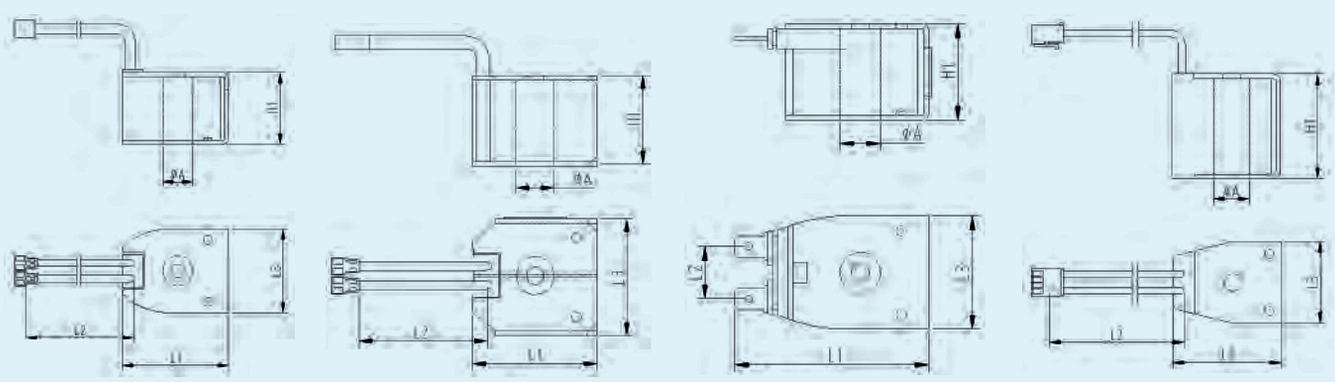




Model Number	A	B	C	L1	L2	L3	L4	H1	H2	H3	H4	H5	Part Number
	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	
DSF(S)-20P-4200	0.76	0.50	1.34	6.85	1.14	1.14	/	0.75	0.51	3.27	3.74	2.64	240120009900
DSF(S)-20P-4201	0.88	0.50	1.34	6.85	1.14	1.14	/	0.75	0.51	3.27	3.74	2.64	240120010000
DSF(S)-34P-4200	0.76	0.88	1.67	8.15	1.32	1.32	/	0.87	0.75	3.39	3.88	3.23	240134005700
DSF(S)-34P-4202	0.88	1.13	1.67	8.15	1.32	1.32	/	0.91	0.87	3.39	3.88	3.23	240134007200

Coil

Model Number	Wiring Type	Wire Length		Supply	Power	Rated Voltage	Frequency	Insulation Class	Protection Class	Part Number
		mm	inch		W	V	Hz			
DXQ -833	Wire	450	17.7	AC	7/5	264 -277	50/60	B	IP54	241509083300
DXQ -822		1000	39.37		7/5	220 -240	50/60			241509082202
DXQ -280		500	19.68		7/5	200V	50/60			241509028000
DXQ -1242		350	13.8		7/5	115	50/60			241509142400
DXQ -987		2000	78.74		7/5	24	50/60			241509098700
DXQ -240-ND	Plug	/	/		7/5	24	50/60			241509024202
DXQ -648	Wire	1000	39.37	DC	9	24	/			241509064800
DXQ -339		1085	42.7		9	35	/			241509108500
DXQ -717		420	28.35	Stable	18	100	50/60			241509071700



A B C D

Model Number	Figure	L1	L2	L3	H1	A	Part Number
		inch	inch	inch	inch	inch	
DXQ -833	A	1.59	17.72	1.30	1.08	0.46	241509083300
DXQ -822	B	1.34	39.37	1.30	1.08	0.46	241509082200
DXQ -280	A	1.59	19.69	1.30	1.08	0.46	241509028000
DXQ -1242	A	1.59	13.78	1.30	1.08	0.46	241509124200
DXQ -987	A	1.59	78.74	1.30	1.08	0.46	241509098700
DXQ -240-ND	C	1.57	0.59	1.30	1.12	0.46	241509024202
DXQ -648	A	1.59	39.37	1.30	1.08	0.46	241509064801
DXQ -339	A	1.59	42.72	1.30	1.08	0.46	241509033900
DXQ -717	D	1.36	16.54	1.02	1.08	0.46	241509071700

4-Way Reversing Valve

DRVB Series

DunAn DRVB Series 4-way reversing valves, using a DunAn DSF Series 4-way reversing valve as a small pilot valve, are designed to change the flow path of refrigerants to switch between cooling and heating modes.

Refrigerant
R22, R407C,R410A
R134a,R32,R290

Medium Temp.
-22 ℉~266 ℉

Ambient Temp.
-22 ℉ ~ 158 ℉

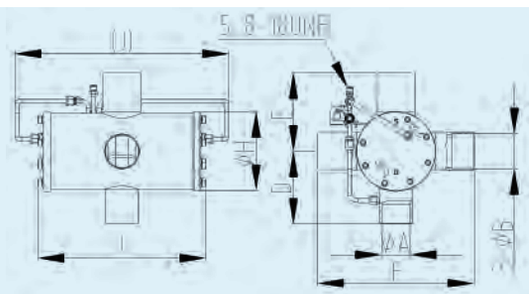
Max. WP
609 psi

Nominal Capacity

Model Number	Area of High Pressure Side		Area of Low Pressure Side		Internal Leakage		R22		R134a		R407C		R410A	
	mm^2	in^2	mm^2	in^2	L/min	gpm	Tons	kW	Tons	kW	Tons	kW	Tons	kW
DRVB1125	804	1.25	1195	1.85	15	3.96	28	98	21	74	27	94	32	112
DRVB1155	2142	3.32	2300	3.57	20	5.28	56	196	42	149	54	188	64	225
DRVB1185	2721	4.22	2909	4.51	30	7.93	75	264	57	200	72	253	86	303
DRVB1215	3608	5.59	4264	6.61	45	11.89	104	366	79	278	100	351	120	420
DRVB1255	5200	8.06	5867	9.09	60	15.85	136	476	103	362	130	457	156	547
DRVB1265	5847	9.06	7272	11.27	90	23.78	150	527	115	405	146	513	175	614
DRVB1305	7410	11.49	10200	15.81	120	31.70	217	762	165	580	208	730	249	875

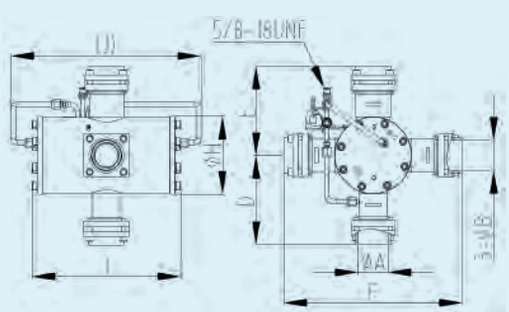
Dimensions

Solder Type



Model Number	A	B	D	E	F	H	I	J	Weight	Part Number
	inch	inch	inch	inch	inch	inch	inch	inch	lbs.	
DRVB1125	1 3/8	1 5/8	4	4	8 1/4	4 3/8	8 1/2	13	24	340095000343
DRVB1155	2 1/8	2 5/8	5 1/4	5 3/8	10 7/8	5 1/2	11 7/8	15 3/4	66	340093000143
DRVB1185	2 1/8	2 5/8	6	6	12	6 3/4	12 3/4	16 3/8	96	340092000143
DRVB1215	2 5/8	3 1/8	6 5/8	7 1/8	14 1/8	7 1/4	15 1/4	19 1/4	131	340091000143
DRVB1255	3 1/8	3 5/8	7 5/8	8 1/4	16 1/2	8 7/8	17 1/4	21 1/4	211	340090000143
DRVB1265	3 5/8	4 1/8	8 3/4	8 3/4	17 1/2	8 7/8	18 5/8	24 7/8	276	340088003849
DRVB1305	4 1/8	5 1/4	9 1/4	9 1/4	18 1/2	9 7/8	21 1/2	27 1/2	331	340089002349

Flange Type



Model Number	A	B	D	E	F	H	I	J	Weight	Part Number
	inch	inch	inch	inch	inch	inch	inch	inch	lbs.	
DRVB1155 -4	2 1/8	2 5/8	5 1/4	5 3/8	10 7/8	5 1/2	11 7/8	15 3/4	82	340093001548
DRVB1185 -4	2 1/8	2 5/8	6	6	12	6 3/4	12 3/4	16 3/8	111	340092000948
DRVB1215 -4	2 5/8	3 1/8	6 5/8	7 1/8	14 1/8	7 1/4	15 1/4	19 1/4	148	340091000948
DRVB1255 -4	3 1/8	3 5/8	7 5/8	8 1/4	16 1/2	8 7/8	17 1/4	21 1/4	234	340090000148
DRVB1305 -4	4 1/8	5 1/4	9 1/4	9 1/4	18 1/2	9 7/8	21 1/2	27 1/2	353	340089002550

Accumulator

DunAn suction line accumulators are designed to prevent liquid slugging in the compressor, and functions as an accumulator, separator, filter, muffler, and refrigerant buffer.

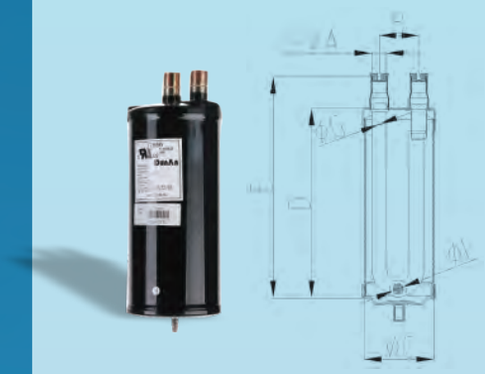
Refrigerant
CFC, HCFC, HFC,HC

Fusible plug temperature
221 ℉

Max. WP
319 psi ~ 653 psi

PED

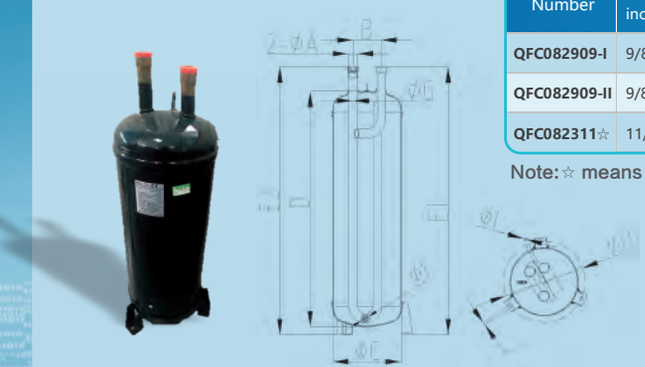
QFA Series



Model Number	A	B	C	D	E	F	G	Thread	Weight	Volume	Part Number
	inch	inch	inch	inch	inch	inch	inch	UNC-2A	lbs.	gal.	
QFA030904	4/8	1.70	3.0	9.00	10.35	0.055	0.130	3/8"-16	2.21	0.20	350000063000
QFA031005	5/8	1.70	3.0	10.85	12.20	0.055	0.165	3/8"-16	2.43	0.24	350000063100
QFA031305	5/8	1.70	3.0	13.70	15.05	0.055	0.063	3/8"-16	3.31	0.31	350000064700
QFA041206*	6/8	1.70	4.0	12.59	13.94	0.026	0.189	3/8"-16	5.52	0.49	350000062900
QFA050706*	6/8	1.70	5.0	7.13	8.48	0.055	0.094	3/8"-16	4.85	0.42	350000064500
QFA050706	6/8	1.70	5.0	7.13	8.48	0.055	0.094	3/8"-16	4.85	0.42	350000121700
QFA050907*	7/8	1.70	5.0	9.74	11.33	0.055	0.094	3/8"-16	2.65	0.57	350000009500
QFA050906*	6/8	1.70	5.0	9.98	11.33	0.055	0.094	3/8"-16	5.96	0.59	350000064600
QFA050906	6/8	1.70	5.0	9.98	11.33	0.055	0.094	3/8"-16	5.96	0.59	350000121800
QFA051107*	7/8	1.70	5.0	11.29	12.88	0.055	0.094	3/8"-16	6.84	0.62	350000009700
QFA051307*	7/8	1.70	5.0	13.75	15.34	0.055	0.094	3/8"-16	7.06	0.84	350000005500
QFA050906*	6/8	1.73	5.2	9.60	11.26	0.055	0.094	3/8"-16	6.40	0.64	350000018000
QFA051107*	7/8	1.73	5.2	11.29	12.89	0.039	0.094	3/8"-16	8.72	0.73	350000009600
QFA051307*	7/8	1.73	5.2	13.75	15.35	0.055	0.094	3/8"-16	8.38	0.95	350000005900
QFA061311*	11/8	2.91	6.0	13.75	15.25	0.079	0.118	3/8"-16	10.59	1.21	350000017900
QFA061609*	9/8	2.38	6.0	16.50	18.40	0.079	0.118	1/2"-13	14.89	1.45	350000008100
QFA061611*	11/8	2.91	6.0	16.50	18.56	0.079	0.118	1/2"-13	15.07	1.45	350000020100
QFA062013*	13/8	2.95	6.0	20.25	21.88	0.079	0.118	3/8"-16	17.87	1.78	350000020000

Note:* product with fusible plug.

QFC Series



Model Number	A	B	C	D	E1	E2	F	G	H	I	J	Weight	Volume	Part Number
	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs.	gal.	
QFC082909-I	9/8	3.54	8.62	29.53	32.68	32.68	0.08	0.08	10.24	/	3.78	33.76	5.41	350000045100
QFC082909-II	9/8	3.54	8.62	29.53	33.86	33.86	0.09	0.08	10.24	/	3.78	33.76	5.41	350000064100
QFC082311☆	11/8	3.54	8.62	23.43	26.18	26.57	0.10	0.08	10.24	2/8	2.76	2824	4.29	350000082200

Note:☆ means the product has no PED certification.

Oil Separator

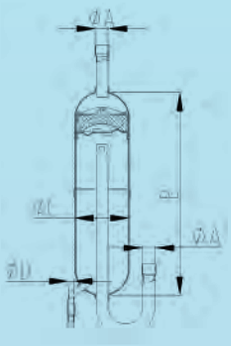
DunAn oil separators are designed to separate compressor lubricating oil from the refrigerant mixture and return the oil back to the compressor crankcase. This ensures proper lubrication inside the compressor.

Refrigerant
CFC, HCFC, HFC,HC

Max. WP
319 psi ~ 653 psi

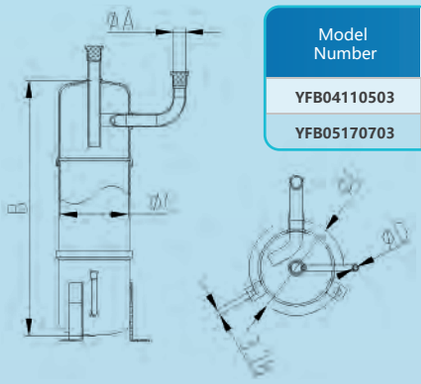
PED

YFA Series



Model Number	A	B	C	D	Weight	Volume	Part Number
	inch	inch	inch	inch	lbs.	gal.	
YFA01060302	3/8	6.54	1.65	2/8	0. 71	0.04	350000122900
YFA02080402	4/8	8.58	2.28	2/8	1.32	0.10	350000104500
YFA03100402	4/8	10.43	3.15	2/8	3.09	0.22	350000120200

YFB Series



Model Number	A	B	C	D	E	Weight	Volume	Part Number
	inch	inch	inch	inch	inch	lbs.	gal.	
YFB04110503	5/8	11.02	4.00	3/8	5.51	0.71	0.41	350000030500
YFB05170703	7/8	17.60	5.00	3/8	6.61	12.94	1.1	350000103600

Receiver

CYB Series

DunAn liquid receivers serves as a refrigerant reservoir. It ensures proper refrigerant flow within a wide range of operating conditions. It also serves as refrigerant storage during service.

Refrigerant
CFC, HCFC, HFC,HC

Max. WP
319 psi ~ 653 psi

CE PED

Model Number	A	B	C	D	E	Thread	Weight	Volume	Part Number
	inch	inch	inch	inch	inch		lbs.	gal.	
CYB040803	3/8	2.756	4.000	8.504	11.614	M10×1.5	4.987	0.330	350000042800
CYB041003	3/8	2.756	4.000	10.276	11.614	M10×1.5	5.869	0.396	350000042900

DunAn
盾安环境
Zhejiang dunan artificial environment CO.,LTD

The Production Base
Add: Diankou Industry Zone, Zhuji, Zhejiang, China
Tel: +86-0575-87655888 Fax: +86-0575-87651550
P.C.: 311835
Website: www.dunan.net

The Domestic Marketing Center:
Tel: +86-0575-87655888
Fax:+86-0575-87658860

International Marketing Center:
Tel: +86-0571-87113788
Fax:+86-0571-87113600
E-mail: dajg_gmb@dunan.cn

DUNAN PRECISION,INC.
Add: 12840 Hillcrest Road, Suite E230
P.C.: 75230
Tel: +1 972-239-7540
Fax: +1 972-239-7545
E-mail: Sales.info@dunanUSA.com

DUNAN INTERNATIONAL (EUROPE) GMBH
Add: Rennbahnstra□e 72-74, 3.OG 60528 Frankfurt am Main
Tel: +49 696-786-6221 +49 696-780-8987
Fax: +49 694-167-4928

DUNAN INTERNATIONAL (JAPAN) CO., LTD
Add: 8F,9-1, Higashitenma 2-Chome, Kita-Ku, Osaka, 530-0044, Japan
Tel: +81 6-6353-6296
Fax: +81 6-6353-6297