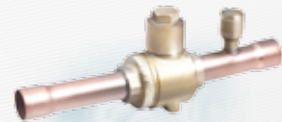




SANHUA

Condensed Catalog | North America



AIR CONDITIONING COMMERCIAL REFRIGERATION HEAT PUMP

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Appliance and HVACR industries makes Sanhua a leading worldwide OEM supplier providing the highest quality components at the most competitive price.

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Note: Sanhua accepts no responsibility for any errors that may occur in this catalogue. Sanhua accepts no responsibility for any product selection made from this material, it is the customers sole responsibility to ensure the correct selection of any components.

Electronic Expansion Valve

DPF-T/S SERIES

REFRIGERANT

R-22, R-134a, R-290, R-404A, R-407C, R-410A, R-507

LARGE TEMPERATURE SERVICE RANGE

-22°F to +158°F (duty cycle below 50%)

PS

650 psig

COIL PROTECTION

IP 66. Insulation Class E



SCAN FOR DATA SHEETS



DPF T/S series electronic expansion valves are designed for single and bi-directional operation for use in air conditioning and refrigeration systems or in heat pumps. The valve supports automatic adjustment of refrigerant flow rate, optimizing system conditions for the purpose of fast cooling or heating, precise temperature control and energy saving. The valve can also be used for suction line pressure or temperature control.

Model	Nominal Cooling Capacity (tons)					Cv	Model	Nominal Cooling Capacity (tons)					Cv
	R-22	R-134a	R-407C	R-404A R-507	R-410A			R-22	R-134a	R-407C	R-404A R-507	R-410A	
DPF(T01)1.3C-07	1.00	0.77	1.00	0.71	1.19	0.06	DPF(TS1)3.0C-01	5.97	4.61	5.97	4.18	7.17	0.45
DPF(T01)1.65C-05	1.51	1.17	1.51	1.05	1.81	0.09	DPF(TS1)3.2C-01	7.96	6.14	7.96	5.57	9.55	0.5
DPF(T01)1.8C-08	1.99	1.54	1.99	1.39	2.39	0.12	DPF(S03)4.0C-01	11.9	9.18	11.9	8.36	14.3	0.58
DPF(T01)2.0C-03	2.50	1.91	2.49	1.73	2.99	0.19	DPF(S03)4.5C-01	15.1	11.5	14.9	10.5	17.9	0.81
DPF(T01)2.2C-01	3.13	2.30	2.99	2.10	3.58	0.23	DPF(S03)5.5C-01	19.9	15.3	19.9	13.9	23.9	1.04
DPF(T01)2.4C-01	5.12	3.84	4.98	3.50	5.97	0.27	DPF(S03)6.5C-02	29.9	23	29.9	20.9	35.8	1.27

COIL

Part Number

DPF-58001

DPF-58002

VPF SERIES

REFRIGERANT

R-22, R-134a, R-404A, R-407A, R-407C, R-407F, R-410A, R-507

COOLING CAPACITY:

32 to 254 tons (R134a nominal capacity)

UP TO 3800 STEPS (FULL STROKE);

Valve starts opening with 110 steps (VPF25) and 165 steps (VPF50...250)

MEDIUM TEMPERATURE TS MIN./MAX.:

-40°F to +158°F (duty cycle rate below 50%)



SCAN FOR DATA SHEETS



VPF series electronic expansion valves, with a max capacity of up to 400 tons, have an all-stainless steel body design to improve strength and corrosion resistance, bi-metal connections for ease of welding and a patented design to ensure higher regulation accuracy and reliability. Typical VPF applications are air conditioning and refrigeration systems or heat pumps. The VPF valve can also be used for suction line pressure controls and provides bi-directional operation to control the refrigerant flow rate in heating or cooling mode.

Model	Steps Completely Open	Nominal Cooling Capacity ¹⁾ (tons)						
		R-22	R-134a	R-407A ²⁾	R-407C ²⁾	R-407F ²⁾	R-404A R-507	R-410A
VPF 12.5	2600	20	15	20	21	22	14	23
VPF 25	2600	41	32	41	44	46	30	49
VPF 50	2600	82	64	82	87	93	60	97
VPF 100	3500	115	91	116	124	132	85	138
VPF 150	3800	207	163	209	222	237	152	248
VPF 250	3800	322	254	325	345	368	236	385
VPF 400	3800	540	425	545	579	617	396	646

Note:

- Nominal working conditions: Condensing temperature 100°F; evaporating temperature +24°F; liquid temperature 99°F
- Data based on dew point conditions



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ADVANCED Technology & Solutions

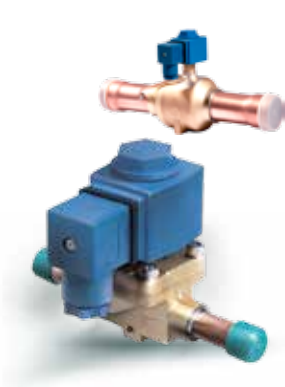
- ✓ Improves system efficiency up to **30%**
- ✓ Active Frequency Conversion Technology
- ✓ Wide Range of voltage application



Solenoid Valve

Sanhua solenoid valves come in two types: normally-closed and normally-open. All Sanhua solenoid valves are designed for liquid, suction and discharge gas applications. They feature low energy consumption coils that provide excellent operational performance. They are applicable for all common refrigerants including R-22, R-134a, R-407C, R-404A, R-410A and R-507A.

MDF SERIES



MDF series solenoid valves are direct operated or pilot operated solenoid valves. The MDF series coils are double sealed for water tightness.

Model	ODF Connection (inch)	Actuation	Tons, refrigeration liquid flow at 2 psi ΔP			
			R-134a	R-404A	R-401C	R-410A
MDF 2	1/4	Direct	0.81	0.58	0.82	0.82
MDF 3	1/4	Direct	1.17	0.84	1.18	1.18
MDF 3	3/8	Direct	1.17	0.84	1.18	1.18
MDF 6	3/8	Pilot-Diaph.	4.06	2.91	4.10	4.10
MDF 6	1/2	Pilot-Diaph.	4.06	2.91	4.10	4.10
MDF 10	1/2	Pilot-Diaph.	9.63	6.92	9.74	9.74
MDF 10	5/8	Pilot-Diaph.	9.63	6.92	9.74	9.74
MDF 15	5/8	Pilot-Diaph.	11.7	8.38	11.8	11.8
MDF 15	7/8	Pilot-Diaph.	11.7	8.38	11.8	11.8
MDF 20	7/8	Pilot-Diaph.	25.4	18.2	25.6	25.6
MDF 20	1-1/8	Pilot-Diaph.	25.4	18.2	25.6	25.6
MDF 22	7/8	Pilot-Diaph.	29.9	21.5	30.2	30.2
MDF 22	1-1/8	Pilot-Diaph.	29.9	21.5	30.2	30.2
MDF 22	1-3/8	Pilot-Diaph.	29.9	21.5	30.2	30.2
MDF 25	1-1/8	Pilot-Diaph.	50.7	36.4	51.2	51.2
MDF 25	1-3/8	Pilot-Piston	50.7	36.4	51.2	51.2
MDF 32	1-3/8	Pilot-Piston	76.1	54.6	76.9	76.9
MDF 32	1-5/8	Pilot-Piston	76.1	54.6	76.9	76.9
MDF 40	1-5/8	Pilot-Piston	127	91.1	128	128
MDF 40	2-1/8	Pilot-Piston	127	91.1	128	128

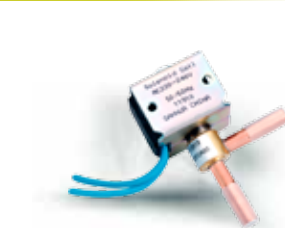
COIL

Model	Voltage	Frequency	Conn. Type	Power @ 60 Hz (W)
MQ A024	24 AC	50/60	DIN	8.5
MQ A11A	110-120 AC	50/60	DIN	10
MQ A22G	220-120 AC	50/60	DIN	10
MQ D024	24 DC		DIN	10

SCAN FOR DATA SHEETS



FDF N/C SERIES

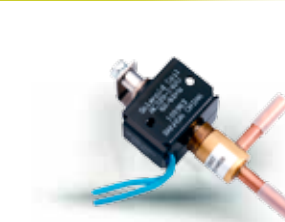


Normally Closed.

FDF series solenoid valves are direct operated or pilot operated solenoid valves.

Model	Conn. ODF (inch)	Actuation	Tons, refrigeration liquid flow at 2 psi ΔP			
			R-134a	R-404A	R407C	R-410A
Normally Closed						
FDF2	1/4	Direct	0.41	0.29	0.41	0.41
FDF2.5	1/4	Pilot	1.01	0.73	1.02	1.02
FDF3	5/16	Pilot	1.32	0.95	1.33	1.33
FDF4	1/4	Pilot	1.32	0.95	1.33	1.33
FDF6	5/16	Pilot	2.84	2.04	2.87	2.87
FDF8	1/2	Pilot	4.82	3.46	4.87	4.87
FDF11	1/2	Pilot	12.2	8.74	12.3	12.3
FDF13	5/8	Pilot	17.4	12.5	17.6	17.6
Normally Open						
FDF2	1/4	Direct	0.25	0.18	0.26	0.26
FDF2	1/4	Direct	0.41	0.29	0.41	0.41

FDF N/O SERIES



Normally Open.

FDF2AK series solenoid valves are direct operated, normally open solenoid valves.

COIL

Model	Voltage	Frequency	Conn. Type	Power @ 60 Hz (W)
FQ A024	24 AC	50/60	Lead Wires	4.5
FQ A120	110-120 AC	50/60	Lead Wires	4.5
FQ A22G	220-120 AC	50/60	Lead Wires	4.5
FQ A22C*	220-240 AC	50/60	Lead Wires	5

* For normally open valves only

Pressure Transducer

YCQ SERIES

GENERAL CHARACTERISTICS

REFRIGERANT	MEDIUM TEMPERATURE TS MIN./MAX.	MEDIUM TEMPERATURE TS MIN./MAX.	AMBIENT TEMPERATURE MIN./MAX.
R-22, R-134a, R-290, R-404A, R-407C, R-410A, R-507	-22°F to +248°F (models with 2% accuracy)	-40°F to +248°F (models with 0.8% accuracy)*	-22°F to +176°F



Pressure transducers are widely used in air conditioning, refrigeration and heat pump systems. Using a 5 V excitation input these transducers provide a 0.5-3.5 V or 0.5-4.5 V signal output proportional to the pressure of the medium. This device requires no end user amplification. Pressure transducers permit control and guarantee system operation under safe and stable conditions.

***Note:** 0.8% FS accuracy is guaranteed only in the temperature range -40°F / +104°F

Model	Models with 2% Accuracy				Models with 0.8% Accuracy	
	YCQB02H01	YCQB05H01	YCQB02L01	YCQB05L01	YCQB02H01-1	YCQB02L01-1
Connection Type	Solder	Solder	Thread	Thread	Solder	Thread
Connection Pipe Size (inch)	1/4"	1/4"	SAE - 1/4"	SAE - 1/4"	1/4"	SAE - 1/4"
Thread Size (inch)	-	-	7/16-20 UNF	7/16-20 UNF	-	7/16-20 UNF
Supply Voltage (V)	5 ± 0.25 DC	5 ± 0.25 DC	5 ± 0.25 DC	5 ± 0.25 DC	5 ± 0.25 DC	5 ± 0.25 DC
Pressure Range (0 to pr) (psig)	0 to 290	0 to 725	0 to 290	0 to 667	0 to 290	0 to 290
Output (VA0 to VApr) (V)	0.5 to 3.5 DC	0.5 to 3.5 DC	0.5 to 4.5 DC	0.5 to 4.5 DC	0.5 to 3.5 DC	0.5 to 4.5 DC
Signal Span (VFS) ¹ (V)	3.0	3.0	3.0	3.0	3.0	3.0
Accuracy ² (%)	± 2.0 % F.S.	± 2.0 % F.S.	± 2.0 % F.S.	± 2.0 % F.S.	± 0.8 % F.S.	± 0.8 % F.S.
Response Time ³ (ms)	10	10	10	10	10	10
Current Consumption (mA)	Max. 10	Max. 10	Max. 10	Max. 10	Max. 10	Max. 10
Load Resistance (kΩ)	Min. 10	Min. 10	Min. 10	Min. 10	Min. 10	Min. 10
Insulation Resistance ⁴ (MΩ)	Min. 100	Min. 100	Min. 100	Min. 100	Min. 100	Min. 100
Maximum Operating Pressure (MOP) (psig)	500	725	500	650	500	500
Test Pressure (psig)	750	1000	750	1000	750	750
Burst Pressure (psig)	2500	3600	3600	3600	2500	2500
Protection Class (-)	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67

Note:

- 1) Signal span: $V_{FS} = FS$ (Full Scale) = $V_A(p_r) - V_{A0}$
- 2) Accuracy measured within the temperature ranges:
 - YCQB02xxx: from -22°F to +185°F
 - YCQB05xxx: from -22°F to +248°F
 Included Nonlinearity (L) and pressure hysteresis. The Nonlinearity is the deviation of the real sensor characteristic $V_A = f(p)$ from the ideal straight line. It can be approximated by a polynomial of second order, with the maximum at $p_x = p_r / 2$.
 The equation to calculate the nonlinearity is: $L = (V_A(p_x) - V_{A0}) / (V_A(p_r) - V_{A0}) - p_x / p_r$
- 3) Response Time: delay between a pressure change (10 to 90% p_r) and the corresponding signal output change (10 to 90% FS)
- 4) Insulation Resistance measured with rated voltage: 500 V DC

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Thermostatic Expansion Valve

Sanhua thermostatic expansion valves are used to adjust mass flow of refrigerant into the evaporator by controlling refrigerant superheat at the outlet of the evaporator. They can be used for various refrigerants under all working conditions. Possible applications are refrigeration systems like freezers, ice makers, dehumidifiers as well as air conditioners and heat pumps at various evaporation temperature ranges.

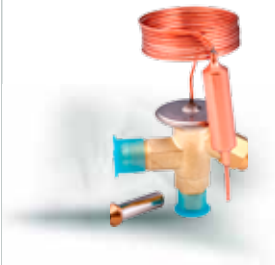
RFKH SERIES

REFRIGERANT
R-22, R-134a, R-290,
R-404A, R-407C,
R-410A, R-507

LARGE TEMPERATURE SERVICE RANGE
-40°F to +158°F

PS
667 psig

CAPILLARY LENGTH
5 ft



The RFKH series thermostatic expansion valve is a replaceable cartridge, externally adjustable style valve ideal for small capacity air conditioning and refrigeration systems. The valve body and cartridge are supplied separately, allowing the valve to be assembled to specific system requirements.

CONNECTION /CAPACITY

Model	Connection type In/Out/Ext.	Outlet size Capacity	
		Flare (inch)	Solder (inch)
RFKH01-6.0-22	flare / flare	1/2	-
RFKH01E-6.0-13	flare / flare / flare	1/2	-
RFKH01-6.0-07	flare / solder	-	1/2
RFKH01E-6.0-08	flare / solder / solder	-	1/2
RFKH02-6.3-24	flare / flare	1/2	-
RFKH02E-6.3-20	flare / flare / flare	1/2	-
RFKH02-6.3-32	flare / solder	-	1/2
RFKH02E-6.3-18	flare / solder / solder	-	1/2
RFKH03-4.8-21	flare / flare	1/2	-
RFKH03E-4.8-15	flare / flare / flare	1/2	-
RFKH03-4.8-09	flare / solder	-	1/2
RFKH03E-4.8-10	flare / solder / solder	-	1/2
RFKH04-2.9-23	flare / flare	1/2	-
RFKH04E-2.9-19	flare / flare / flare	1/2	-
RFKH04-2.9-30	flare / solder	-	1/2
RFKH04E-2.9-31	flare / solder / solder	-	1/2
RFKH05-6.8-66	flare / flare	1/2	-
RFKH05E-6.8-33	flare / flare / flare	1/2	-
RFKH05-6.8-35	flare / solder	-	1/2
RFKH05E-6.8-34	flare / solder / solder	-	1/2
RFKH07-6.0-43	flare / flare	1/2	-
RFKH07E-6.0-42	flare / flare / flare	1/2	-
RFKH07-6.0-45	flare / solder	-	1/2
RFKH07E-6.0-46	flare / solder / solder	-	1/2

ORIFICE

Model	Nominal Capacity in tons					
	R-22	R-407C	R-404A/ R-507	R-134a	R-410A	R-407A/ R-407F
RFKH-023-0X	0.28	0.28	0.20	0.20	0.31	0.28
RFKH-023-00	0.54	0.60	0.40	0.34	0.63	0.51
RFKH-023-01	1.08	1.14	0.80	0.60	1.28	1.05
RFKH-023-02	1.45	1.54	1.14	0.77	1.59	1.45
RFKH-023-03	2.45	2.62	1.93	1.25	2.84	2.45
RFKH-023-04	3.75	3.95	3.07	1.85	4.32	3.81
RFKH-023-05	5.15	5.26	4.01	2.45	5.43	5.00
RFKH-023-06	6.06	6.28	4.78	2.93	6.82	6.03

PORT CONNECTIONS

Inlet A Flare (inch)	Outlet B		External Equalization C	
	Flare (inch)	Solder ODF (inch)	Flare (inch)	Solder ODF (inch)
3/8	1/2	-	1/4	-
	-	1/2	-	1/4

Version with Solder ODF in inch sizes for Outlet B and for External Equalization C on request.

SOLDER ADAPTERS INLET A

Part Number	SAE Flare	Solder Connection
RFK-24044	3/8"	3/8"
RFK-24048		1/4"

SOLDER ADAPTERS FOR EXTERNAL EQUALIZATION C

Part Number	SAE Flare	Solder Connection
RFK-24047	1/4"	1/4"

FLARE NUTS FOR RFKH

Part Number	SAE Flare (inch)	Pipe Diameter
		(inch)
RFK-24050	1/4	1/4
RFK-24051	3/8	3/8
RFK-24052	1/2	1/2

SCAN FOR
DATA SHEETS



Thermostatic Expansion Valve Continued

REFRIGERANT: R-22, R-134a, R-290, R-404A, R-407C, R-410A, R-507
 MEDIUM TEMPERATURE TS MIN./MAX.: -40°F to +158°F
 MAX. OPERATING PRESSURE PS: 500 psig

RFCB SERIES

TECHNICAL DATA



The RFCB series thermostatic expansion valve is a small capacity valve designed for refrigeration systems. The valve can be supplied in straight through or angle (bottom outlet) configurations. The straight through configuration is externally adjustable.

R-22		R-407C ^{2,3)}		R-404A / R-507		R-134a	
Model ⁴⁾	Capacity ¹⁾ (tons)	Model	Capacity (tons)	Model	Capacity (tons)	Model	Capacity (tons)
RFGB 01-1	0.48	RFGB 02 -1	0.48	RFGB 03-1	0.34	RFGB 04-1	0.31
RFGB 01E-1		RFGB 02E-1		RFGB 03E-1		RFGB 04E-1	
RFGB 01-2	0.82	RFGB 02 -2	0.85	RFGB 03-2	0.65	RFGB 04-2	0.43
RFGB 01E-2		RFGB 02E-2		RFGB 03E-2		RFGB 04E-2	
RFGB 01-3	1.4	RFGB 02 -3	1.4	RFGB 03-3	1.2	RFGB 04-3	0.77
RFGB 01E-3		RFGB 02E-3		RFGB 03E-3		RFGB 04E-3	
RFGB 01-4	2.0	RFGB 02 -4	2.0	RFGB 03-4	1.8	RFGB 04-4	1.1
RFGB 01E-4		RFGB 02E-4		RFGB 03E-4		RFGB 04E-4	
RFGB 01-5	2.3	RFGB 02 -5	2.4	RFGB 03-5	2.1	RFGB 04-5	1.3
RFGB 01E-5		RFGB 02E-5		RFGB 03E-5		RFGB 04E-5	

- Note:** 1) Nominal capacity valid for: - Version "S" in straight shape and version "A" in angle shape
 - Versions with metrical and imperial connections
 2) Nominal working conditions: Condensing temperature: 100°F; evaporating temperature +24°F; Liquid temperature 99°F
 3) R-407C data based on dew point conditions
 4) Model Name in this table is referred to the first 4 positions of the model designation

Models with replaceable inlet strainer available on request.

REFRIGERANT: R-22, R-134a, R-290, R-404A, R-407C, R-410A, R-507
 MEDIUM TEMPERATURE TS MIN./MAX.: -40°F to +158°F
 PS: 650 psig

RFGD SERIES

TECHNICAL DATA Nominal Capacities¹



The RFGD series thermostatic expansion valve is a large capacity valve designed for both air conditioning and refrigeration systems. This valve features a balanced port construction, bi-directional control, and it can be supplied as an adjustable or non-adjustable valve.

R-22		R-407C ²⁾		R-404A / R-507		R-134a		R-410A	
Model	Capacity (tons)	Model	Capacity (tons)	Model	Capacity (tons)	Model	Capacity (tons)	Model	Capacity (tons)
RFGD 01-1	3.0	RFGD 02-1	3.1	RFGD 03-1	2.0	RFGD 04-1	1.8	RFGD 05-1	3.5
RFGD 01E-1		RFGD 02E-1		RFGD 03E-1		RFGD 04E-1		RFGD 05E-1	
RFGD 01-2	4.0	RFGD 02-2	4.2	RFGD 03-2	2.8	RFGD 04-2	2.5	RFGD 05-2	4.5
RFGD 01E-2		RFGD 02E-2		RFGD 03E-2		RFGD 04E-2		RFGD 05E-2	
RFGD 01-3	6.0	RFGD 02-3	6.3	RFGD 03-3	4.2	RFGD 04-3	3.6	RFGD 05-3	7.0
RFGD 01E-3		RFGD 02E-3		RFGD 03E-3		RFGD 04E-3		RFGD 05E-3	
RFGD 01-4	7.5	RFGD 02-4	8.1	RFGD 03-4	5.4	RFGD 04-4	4.6	RFGD 05-4	8.6
RFGD 01E-4		RFGD 02E-4		RFGD 03E-4		RFGD 04E-4		RFGD 05E-4	
RFGD 01-5	9.0	RFGD 02-5	9.4	RFGD 03-5	6.4	RFGD 04-5	5.5	RFGD 05-5	10.6
RFGD 01E-5		RFGD 02E-5		RFGD 03E-5		RFGD 04E-5		RFGD 05E-5	

RFGD STANDARD RANGE B) Models with Imperial Connections

Ref.	Valve Body	Capacity Size All Sizes	Connections IN x OUT		Pressure Equal. (inch)	Model
			Imperial	(inch)		
R-407C	RFGD 02E	1 -	3	3/8 x 5/8	1/4	RFGD 02E-3.1-33
		2 -	4	1/2 x 7/8	1/4	RFGD 02E-4.2-34
		3 -	4	1/2 x 7/8	1/4	RFGD 02E-6.3-35
		4 -	4	1/2 x 7/8	1/4	RFGD 02E-8.1-36
		5 -	5	5/8 x 7/8	1/4	RFGD 02E-9.4-37
		6 -	5	5/8 x 7/8	1/4	RFGD 02E-11.7-38
R-404A / R-507	RFGD 03E	1 -	3	3/8 x 5/8	1/4	RFGD 03E-2.0-39
		2 -	4	1/2 x 7/8	1/4	RFGD 03E-2.8-40
		3 -	4	1/2 x 7/8	1/4	RFGD 03E-4.2-41
		4 -	4	1/2 x 7/8	1/4	RFGD 03E-5.4-42
		5 -	5	5/8 x 7/8	1/4	RFGD 03E-6.4-43
		6 -	5	5/8 x 7/8	1/4	RFGD 03E-7.8-44
R-134a	RFGD 04E	1 -	3	3/8 x 5/8	1/4	RFGD 04E-1.8-01
		2 -	4	1/2 x 7/8	1/4	RFGD 04E-2.5-02
		3 -	4	1/2 x 7/8	1/4	RFGD 04E-3.6-03
		4 -	4	1/2 x 7/8	1/4	RFGD 04E-4.6-04
		5 -	5	5/8 x 7/8	1/4	RFGD 04E-5.5-49
		6 -	5	5/8 x 7/8	1/4	RFGD 04E-6.8-32
R-410A	RFGD 05E	1 -	3	3/8 x 5/8	1/4	RFGD 05E-3.5-22
		2 -	4	1/2 x 7/8	1/4	RFGD 05E-4.5-23
		3 -	4	1/2 x 7/8	1/4	RFGD 05E-7.0-24
		4 -	4	1/2 x 7/8	1/4	RFGD 05E-8.6-25
		5 -	5	5/8 x 7/8	1/4	RFGD 05E-10.6-27
		6 -	5	5/8 x 7/8	1/4	RFGD 05E-12.8-26

SCAN FOR DATA SHEETS



4-Way Reversing Valve

SHF SERIES

CAPACITY SELECTION TABLE

REFRIGERANT

R-22, R-134a, R-290, R-404A,
R-407C, R-410A, R-507

**LARGE TEMPERATURE
SERVICE RANGE**

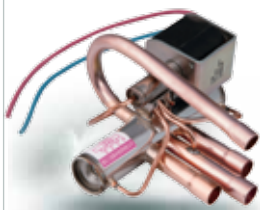
-22°F to +275°F

OPD MAX

580 psig

PS

650 psig



SHF series four-way reversing valves are applicable for heat pump systems to switch between cooling mode and heating mode by changing the flow path of refrigerant. Sanhua reversing valves cover a wide application range suitable for capacities from 1 ton to 120 tons and refrigerants such as R-22, R-134a, R-404A, R-407C, R-410A and R-507C.

Model	Nominal Cooling Capacity (tons - condition 2)							
	R-407C		R-410A		R-134a		R-404A/R-507	
	Pressure Drop (PSI)							
	1.5	3	1.5	3	1.5	3	1.5	3
SHF(L)-3H-12U-51	0.85	1.22	1.02	1.42	0.68	0.97	0.68	0.97
SHF(L)-4H-23U-51	0.91	1.31	1.08	1.54	0.74	1.05	0.74	1.05
SHF(G)-7C-34U	1.68	2.36	1.96	2.76	1.34	1.88	1.34	1.88
SHF(G)-7C-34	1.68	2.36	1.96	2.76	1.34	1.88	1.34	1.88
SHF(L)-7H-35-51	1.68	2.36	1.96	2.76	1.34	1.88	1.34	1.88
SHF(G)-11C-34U	2.25	3.18	2.64	3.72	1.79	2.53	1.79	2.53
SHF(L)-11H-35U-51	2.59	3.67	3.04	4.29	2.08	2.93	2.08	2.93
SHF(L)-11H-45D1-51	2.59	3.67	3.04	4.29	2.08	2.93	2.08	2.93
SHF(L)-11H-46D1-51	2.59	3.67	3.04	4.29	2.08	2.93	2.08	2.93
SHF-14A-46	3.81	5.37	4.46	6.31	3.04	4.29	3.04	4.29
SHF-20D-46-02	5.49	7.76	6.4	9.07	4.38	6.17	4.38	6.17
SHF-20D-47-02	5.72	8.08	6.68	9.44	4.55	6.45	4.55	6.43
SHF-20D-57-02	5.72	8.08	6.68	9.44	4.55	6.45	4.55	6.43
SHF-20D-67-02	5.72	8.08	6.68	9.44	4.55	6.45	4.55	6.43
SHF-35B-47-04	8.47	12	9.92	14	6.77	9.58	6.77	9.55
SHF-35B-57-04	8.47	12	9.92	14	6.77	9.58	6.77	9.55
SHF-35B-59-04	8.47	12	9.92	14	6.77	9.58	6.77	9.55
SHF-35B-67-04	8.47	12	9.92	14	6.77	9.58	6.77	9.55
SHF-35B-69-04	8.47	12	9.92	14	6.77	9.58	6.77	9.55
SHF-35B-79-04	8.47	12	9.92	14	6.77	9.58	6.77	9.55
SHF-50A-79	10.5	14.9	12.3	17.5	8.42	11.9	8.42	11.9
SHF-50-911D2	10.7	15.1	12.5	17.7	8.5	12.1	8.5	12
SHF(L)-70-810	16.4	23.3	19.2	27.2	13.1	18.5	13.1	18.5
SHF(L)-70-810-01	16.4	23.3	19.2	27.2	13.1	18.5	13.1	18.5
SHF(L)-70-911	16.4	23.3	19.2	27.2	13.1	18.5	13.1	18.5
SHF(L)-70-911-01	16.4	23.3	19.2	27.2	13.1	18.5	13.1	18.5
SHF(L)-70-913-05	16.4	23.3	19.2	27.2	13.1	18.5	13.1	18.5
SHF(L)-70-913-03	16.4	23.3	19.2	27.2	13.1	18.5	13.1	18.5
SHF(L)-100-911	23.4	33	27.3	38.7	18.7	26.4	18.6	26.3
SHF(L)-100-911-01	23.4	33	27.3	38.7	18.7	26.4	18.6	26.3
SHF(L)-100-913	23.4	33	27.3	38.7	18.7	26.4	18.6	26.3
SHF(L)-100-913-01	23.4	33	27.3	38.7	18.7	26.4	18.6	26.3
SHF(L)-100-1012	23.4	33	27.3	38.7	18.7	26.4	18.6	26.3
SHF(L)-100-1012-01	23.4	33	27.3	38.7	18.7	26.4	18.6	26.3
SHF(L)-100-1013	23.4	33	27.3	38.7	18.7	26.4	18.6	26.3
SHF(L)-100-1013-01	23.4	33	27.3	38.7	18.7	26.4	18.6	26.3
SHF(L)-140-1113	33.7	47.6	39.4	55.7	26.9	38	26.8	38
SHF(L)-140-1213	33.7	47.6	39.4	55.7	26.9	38	26.8	38
SHF(L)-140-1214	33.7	47.6	39.4	55.7	26.9	38	26.8	38
SHF(L)-140-1313	33.7	47.6	39.4	55.7	26.9	38	26.8	38
SHF(L)-175-1217	40.7	57.5	47.6	67.3	32.4	45.9	32.4	45.8
SHF(L)-175-1317	40.7	57.5	47.6	67.3	32.4	45.9	32.4	45.8
SHF(L)-210-1321	48.7	68.8	57	80.6	38.8	54.9	38.8	54.9
SHF(L)-350-1721	79.8	113	93.4	132	63.7	90.1	63.6	90
SHF(L)-420-2125	102	144	119	169	81.5	115	81.4	115

4-Way Reversing Valve Continued

SHF SERIES

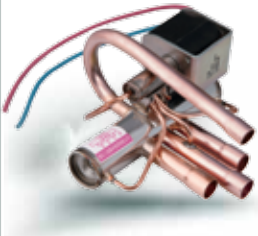
COIL SELECTION

REFRIGERANT
R-22, R-134a, R-290, R-404A,
R-407C, R-410A, R-507

LARGE TEMPERATURE
SERVICE RANGE
-22°F to +275°F

OPD MAX
580 psig

PS
650 psig



Part Number	Max working temp. (°F)	Power Supply (-)	Rated Voltage (V)
SHF-56001	266	AC	220 to 240
SHF-56002	266	AC	200
SHF-56003	266	AC	100
SHF-56004	266	AC	110 to 120
SHF-56005	266	AC	24
SHF-56006	266	AC	265 to 277
SHF-56024	266	AC	220
SHF-56025	266	AC	110 to 120
SHF-56009	266	AC	24
SHF-56012*	311	AC	220 to 240
SHF-56013*	311	AC	220
SHF-56014*	311	AC	120
SHF-56015*	311	AC	100 to 110
SHF-56016*	311	AC	24
SHF-56017*	311	AC	265 to 277
SHF-56018*	311	AC	200
SHF-56019*	311	DC	12
SHF-56020*	311	DC	24
SHF-56021	266	AC	100
SHF-56022	266	AC	200
SHF-56023	266	DC	12
SHF-56027	266	AC	220 to 240

Nominal operating conditions	Condition 2
Condensing Temperature	130°F
Evaporating Temperature	45°F
SuperHeating	9°F
SubCooling	9°F

Capacity under other conditions available on our website

SCAN FOR DATA SHEETS



* This selection range is compatible for both series SHF and SHF (HP), except SHF-56018 only to SHF (HP)



Technical information
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Certificate of registration
ISO 14001:2004



Certificate of registration
ISO 9001:2008



BEST SUPPLIER AWARDS

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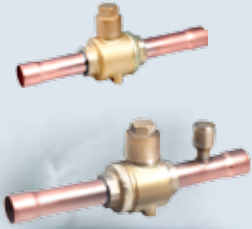
Ball Valve

SBV SERIES

REFRIGERANT: R-22, R-134a, R-290, R-404A, R-407C, R-410A, R-507 Bi-directional, full port

LARGE TEMPERATURE SERVICE RANGE: -40°F to +248°F

PS: 650 psig



Sanhua SBV series ball valves are applicable for commercial air conditioner, freezing/deep-freezing equipment or other refrigeration circuits in order to open and to shut the inner flow path by operating the valve stem. It can also be used as service valve for vacuum pumping and refrigerant injection etc. Models come with or without access fitting.

Model	Connection	Cv	Model	Connection	Cv
	(inch)			(inch)	
With access fitting			Without access fitting		
SBV(M)-A2YHSY-1-S	1/4	2.20	SBV(M)-JA2YHSY-1-S	1/4	2.20
SBV(M)-A3YHSY-2-S	3/8	6.36	SBV(M)-JA3YHSY-2-S	3/8	6.36
SBV(M)-A4YHSY-1-S	1/2	11.8	SBV(M)-JA4YHSY-1-S	1/2	11.8
SBV(M)-A5YHSY-1-S	5/8	16.0	SBV(M)-JA5YHSY-1-S	5/8	16.0
SBV(M)-A6YHSY-1-S	3/4	22.6	SBV(M)-JA6YHSY-1-S	3/4	22.6
SBV(M)-A7YHSY-1-S	7/8	32.4	SBV(M)-JA7YHSY-1-S	7/8	32.4
SBV(M)-A9YHSY-1-S	1-1/8	59.6	SBV(M)-JA9YHSY-1-S	1-1/8	59.6
SBV(M)-A11YHSY-1-S	1-3/8	92.6	SBV(M)-JA11YHSY-1-S	1-3/8	92.6
SBV(M)-A13YHSY-2-S	1-5/8	139	SBV(M)-JA13YHSY-2-S	1-5/8	139
SBV(M)-A17YHSY-1-S	2-1/8	260	SBV(M)-JA17YHSY-1-S	2-1/8	260
SBV(M)-A21YHSY-2-S	2-5/8	353	SBV(M)-JA21YHSY-2-S	2-5/8	353
SBV(M)-A25YHSY-2-S	3-1/8	735	SBV(M)-JA25YHSY-2-S	3-1/8	735
SBV(M)-A29YHSY-1-S	3-5/8	931	SBV(M)-JA29YHSY-1-S	3-5/8	931
SBV(M)-A33YHSY-2-S	4-1/8	1100	SBV(M)-JA33YHSY-2-S	4-1/8	1100
SBV(M)-A34YHSY-1-S	4-1/4	1100	SBV(M)-JA34YHSY-1-S	4-1/4	1100

CBV SERIES

Applicable For: R-744 (CO₂)

MEDIUM TEMPERATURE RANGE: -40°F to +300°F

MAX. OPERATING PRESSURE PS: 650 psig

INSTALLATION POSITION: liquid, suction and discharge line in all directions



CBV valves are typically used in commercial CO₂ refrigeration applications in order to open and to shut off inner flow path by operating the valve stem. The ball valve of series CBV is applicable for subcritical CO₂ refrigeration systems and is a perfect choice for all similar CO₂ systems.

GENERAL CHARACTERISTICS

Model	Part Number ¹⁾	Connection ODF	Cv
		(inch)	
CBV02-001	CBV-67002	1/4	2.54
CBV03-001	CBV-67003	3/8	7.35
CBV04-001	CBV-67006	1/2	13.6
CBV05-001	CBV-67007	5/8	18.5
CBV06-001	CBV-67009	3/4	26.1
CBV07-001	CBV-67010	7/8	37.5
CBV09-001	CBV-67012	1-1/8	68.9
CBV11-001	CBV-67013	1-3/8	107
CBV13-002	CBV-67014	1-5/8	161
CBV17-001	CBV-67016	2-1/8	301

SCAN FOR DATA SHEETS



Check Valve Piston Type

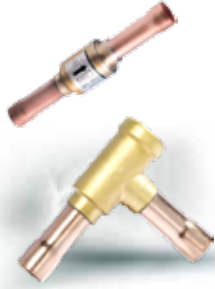
YCV SERIES

REFRIGERANT
R-22, R-134a, R-290, R-404A,
R-407C, R-410A, R-507

**LARGE TEMPERATURE
SERVICE RANGE**
-58°F to +284°F

PS
667 psig

**SOLDER
CONNECTION**



Piston type check valves are designed for installation in refrigeration and air conditioning systems. They are used to control the unidirectional flow of refrigerant so as to prevent backflow.

Model	Type	Connection	Cv
		Ø ODF (in)	
YCVS 5-22GSHC-1	straight	1/4	0.65
YCVS 8-33GSHC-1	straight	3/8	1.65
YCVSH 8-33GSHC-1	straight	3/8	1.65
YCVS 10-44GSHC-1	straight	1/2	2.43
YCVSH 10-44GSHC-1	straight	1/2	2.43
YCVS 13-55GSHC-1	straight	5/8	4.51
YCVSH 13-55GSHC-1	straight	5/8	4.51
YCVS 17-66GSHC-1	straight	3/4	6.39
YCVSH 17-66GSHC-1	straight	3/4	6.39
YCVS 17-77GSHC-1	straight	7/8	6.39
YCVSH 17-77GSHC-1	straight	7/8	6.39
YCVS 20-77GSHC-1	L-shape	7/8	15.3
YCVSH 20-77GSHC-1	L-shape	7/8	15.3
YCVS 27-99GSHC-1	L-shape	1-1/8	22.0
YCVSH 26-99GSHC-1	L-shape	1-1/8	22.0
YCVS 31-BBGSHC-1	L-shape	1-3/8	33.7
YCVSH 31-BBGSHC-1	L-shape	1-3/8	33.7
YCVS 31-DDGSHC-1	L-shape	1-5/8	33.7
YCVSH 31-DDGSHC-1	L-shape	1-5/8	33.7

SCAN FOR
DATA SHEETS



Sight Glass

SYJ SERIES

REFRIGERANT
R-22, R-134a, R-290, R-404A, R-407C,
R-410A, R-507, R-744, R-407A/F, R-1234ze

**LARGE TEMPERATURE
SERVICE RANGE**
-58°F to +176°F

PS
667 psig



Sight glasses are installed after the filter drier in liquid line of refrigeration and air conditioning systems, in order to observe property changes of the refrigerant (liquid/vapor) and to indicate the moisture level by colors.

MALE / FEMALE

Model	Connection Type	SAE Flare
		Ød (inch)
SYJ-42034	Flare F x M	1/4
SYJ-42035	Flare F x M	3/8
SYJ-42036	Flare F x M	1/2
SYJ-42037	Flare F x M	5/8
SYJ-42038	Flare F x M	3/4

FEMALE / FEMALE

Model	Connection Type Solder	Connections ODF
		(inch)
SYJ-42021	ODF x ODF	1/4
SYJ-42022	ODF x ODF	3/8
SYJ-42024	ODF x ODF	1/2
SYJ-42026	ODF x ODF	5/8
SYJ-42027	ODF x ODF	3/4
SYJ-42028	ODF x ODF	7/8

MALE / MALE

Model	Connection Type	SAE Flare
		(inch)
SYJ-42029	Flare M x M	1/4
SYJ-42030	Flare M x M	3/8
SYJ-42031	Flare M x M	1/2
SYJ-42032	Flare M x M	5/8
SYJ-42033	Flare M x M	3/4

SCAN FOR
DATA SHEETS



Brass Service Valve

SSV SERIES



Series SSV brass service valves can be used in various cooling or refrigeration systems. The inner path of the valve can be closed by operating the valve stem. The 3-way version (with charge port) can be used as service valve for vacuum pumping and refrigerant charging.

REFRIGERANT: R-134a, R-404A, R-407C, R-410A, R-507
 LARGE TEMPERATURE SERVICE RANGE: -22°F to +248°F
 PS: 650 psig

Model	Flare in	(inch)	(inch)	(inch)	Pipe	Charge Port Flare (inch)
SSV-A2GSHC-23	7/16-20UNF	0.91	0.28	1/4	4.8	-
SSV-JA3GSHC-20	5/8-18UNF	0.96	0.28	3/8	7.0	5/16
SSV-JA4GSHC-19	3/4-16UNF	1.10	0.28	1/2	10	5/16
SSV-JA5GSHC-15	7/8-14UNF	1.34	0.28	5/8	12.5	5/16
SSV-JA6-GSHC-13	1-1/16-14UNS	1.57	0.28	3/4	16	5/16

SCAN FOR DATA SHEETS



Access Valve

TCJ SERIES



Access valves are installed on air conditioning and refrigeration system to provide a means to check refrigerant pressure and to allow refrigerant charging and system evacuation.

REFRIGERANT: R-22, R-134a, R-404A, R-407C, R-410A, R-507
 LARGE TEMPERATURE SERVICE RANGE: -22°F to +176°F
 PS: 650 psig

Model			Flare	Solder	
	(inch)	(inch)	(inch)	(inch)	(inch)
*TCJ-2HMSZ-1	1.0	2.6	7/16-20	1/4	0.3
TCJ-2GMS-1	1.0	2.6	1/2-20	1/4	0.3
*TCJ-2HLEN-1	1.0	-	7/16-20	-	-
TCJ-2GLEN-2	1.0	-	1/2-20	-	-

SCAN FOR DATA SHEETS



*Only for R22



ELECTRONIC and MECHANICAL VALVES



Sanhua supplies more than 40 million Electronic and Mechanical Expansion valves to the global HVACR and Automotive industries yearly.

VALVES



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Filter Drier Shells with Replaceable Core

REFRIGERANT R-22, R-134a, R-404A, R-407C, R-410A, R-507	FILTRATION 20 pm	LARGE TEMPERATURE SERVICE RANGE -40°F to +248°F	PS 650 psig
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HTG SERIES



The HTG series filter-drier shells with replaceable cores are designed for big system protection. The large capacity models are ideal for new system start-ups to remove moisture and solid particle contamination from field piping. The replaceable core design also simplifies continued system protection and preventive maintenance initiatives. Replacing cores routinely ensures lowest possible moisture levels and clean oil. Sanhua has three core types to match the requirement: SHF48-A80 for normal use and replacement; SHF48-A00 for excessive moisture issues; SHF48-A30 for oil clean-up.

FILTER WITH REPLACEABLE CORE: SH48A-A80

SELECTION FORMULAS

Filter driers for liquid line are manufactured in compliance with AHRI Standard 710. Maximum flow rate of liquid refrigerant at a differential pressure of 1psi is indicated by tons which is based on the temperature of liquid refrigerant 86°F, the evaporating temperature of 5°F and the following mass flow:

- 3.1 lb/min/ton R-134a
- 4.1 lb/min/ton R-404A, R-507A
- 3.0 lb/min/ton R-22, R-407C
- 2.8 lb/min/ton R-410A

Note: Data on water absorption is based on the following EPD (method: AS HRAE Standard 63.1):

- 60ppm R-22
- 50ppm R-134a
- 50ppm R-404A
- 50ppm R-407C
- 50ppm R-410A
- 50ppm R-507

Series	Model	Solder Connection ODF (inch)	Number of cores	Capacity (tons) ¹				
				R-134a	R-404A	R-22	R-407C ²⁾	R-410A
HTG A48s	HTG-A48050-901	5/8	1	18.6	13.1	19.2	19.2	19.2
	HTG-A48070-901	7/8		29.8	20.9	30.8	30.8	30.8
	HTG-A48090-901	1 1/8		42.8	30.1	44.2	44.2	44.2
	HTG-A48110-901	1 3/8		42.8	30.1	44.2	44.2	44.2
	HTG-A48130-901	1 5/8		57.6	40.5	59.5	59.5	59.5
	HTG-A48170-901	2 1/8		70.8	49.7	73.0	73.0	73.0
	HTG-A48210-901	2 5/8		17.0	49.7	73.0	73.0	73.0
HTG A96s	HTG-A96050-901	5/8	2	101	70.6	104	104	104
	HTG-A96070-901	7/8		112	78.5	115	115	115
	HTG-A96090-901	1 1/8		18.6	13.1	19.2	19.2	19.2
	HTG-A96110-901	1 3/8		29.8	20.9	30.8	30.8	30.8
	HTG-A96130-901	1 5/8		42.8	30.1	44.2	44.2	44.2
	HTG-A96170-901	2 1/8		42.8	30.1	44.2	44.2	44.2
	HTG-A96210-901	2 5/8		57.6	40.5	59.5	59.5	59.5
HTG B44s	HTG-B44050-901	5/8	3	70.8	49.7	73.0	73.0	73.0
	HTG-B44070-901	7/8		70.8	49.7	73.0	73.0	73.0
	HTG-B44090-901	1 1/8		101	70.6	104	104	104
	HTG-B44110-901	1 3/8		112	78.5	115	115	115
	HTG-B44130-901	1 5/8		18.6	13.1	19.2	19.2	19.2
	HTG-B44170-901	2 1/8		29.8	20.9	30.8	30.8	30.8
	HTG-B44210-901	2 5/8		42.8	30.1	44.2	44.2	44.2
HTG B92s	HTG-B92050-901	5/8	4	42.8	30.1	44.2	44.2	44.2
	HTG-B92070-901	7/8		57.6	40.5	59.5	59.5	59.5
	HTG-B92090-901	1 1/8		70.8	49.7	73.0	73.0	73.0
	HTG-B92110-901	1 3/8		70.8	49.7	73.0	73.0	73.0
	HTG-B92130-901	1 5/8		101	70.6	104	104	104
	HTG-B92170-901	2 1/8		112	78.5	115	115	115
	HTG-B92210-901	2 5/8		18.6	13.1	19.2	19.2	19.2

SCAN FOR DATA SHEETS



Uni-Flow Filter Driers (Sealed Type)

DTG/L SERIES

SOLID MOLDED CORE

REFRIGERANT R-22, R-134a, R-404A, R-407C, R-410A, R-507	FILTRATION 20 pm	LARGE TEMPERATURE SERVICE RANGE -30°F to +120°F	PS 700 psig
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Sanhua International offers a full line of liquid line filter-driers with molded core, providing proven performance under demanding conditions where moisture, contaminants, dirt or acid removal is required. Sanhua filter-driers are applicable for all common refrigerants, including R-134a, R-404A, R-410A, R-507 and R-290.

DTG series filter-driers are used in refrigeration systems with unidirectional flow to absorb moisture and acid in the system and to filter out the impurities.

SELECTION FORMULAS

Filter Drier for liquid line are manufactured in compliance with AHRI Standard 710.

Maximum flow rate of liquid refrigerant at a differential pressure of 1psi is indicated by tons which is based on the temperature of liquid refrigerant 86°F and the following mass flow:

- 3.1 lb/min/ton R-134a
- 4.1 lb/min/ton R-404A, R-507
- 3.0 lb/min/ton R-22, R-407C
- 2.8 lb/min/ton R-410A

Note: Data on water absorption is based on the following EPD (method: ASHRAE Standard 63.1):

- 60ppm R-22
- 15ppm R-12
- 30ppm R-502
- 50ppm R-134a, R-404A, R-507, R-410A, R-407C

Note: The above data is based on clean system at ideal conditions; with impurities accumulated in the filter, the flow may decrease.

SAE FLARE CONNECTION

Model	Capacity (tons)					Conn. SAE Flare (inch)
	R-134a	R-404A/ R-507	R-22	R-407C	R-410A	
DTG-F03 024-901	2.19	1.91	2.30	2.30	2.30	1/4
DTG-F03 034-901	4.09	3.01	4.21	4.21	4.21	3/8
DTG-F03 044-901	6.99	4.89	7.11	6.99	7.11	1/2
DTG-F05 024-901	2.39	1.71	2.39	2.39	2.39	1/4
DTG-F05 034-901	6.80	4.81	6.91	6.80	6.99	3/8
DTG-F08 024-901	2.39	1.71	2.39	2.39	2.39	1/4
DTG-F08 034-901	7.11	5.00	7.19	7.11	7.31	3/8
DTG-F08 044-901	8.70	6.11	8.90	8.79	9.01	1/2
DTG-F16 024-901	3.10	2.19	3.21	3.10	3.21	1/4
DTG-F16 034-901	7.31	5.09	7.39	7.39	7.51	3/8
DTG-F16 044-901	9.21	6.51	9.41	9.30	9.61	1/2
DTG-F16 054-901	12.3	8.70	12.4	12.4	12.6	5/8
DTG-F16 064-901	13.2	9.30	13.4	13.3	13.6	3/4
DTG-F30 034-901	7.31	5.09	7.39	7.39	7.51	3/8
DTG-F30 044-901	9.41	6.60	9.61	9.50	9.70	1/2
DTG-F30 054-901	13.0	9.10	13.2	13.1	13.3	5/8
DTG-F30 064-901	17.8	12.5	18.1	18.0	18.3	3/4
DTG-F30 074-901	17.9	12.6	18.2	18.1	18.4	7/8
DTG-F41 044-901	10.0	6.99	10.2	10.1	10.3	1/2
DTG-F41 054-901	17.3	12.2	17.6	17.5	17.8	5/8

SOLDER CONNECTION

Model	Capacity (tons)					Conn. Solder (inch)
	R-134a	R-404A/ R-507	R-22	R-407C	R-410A	
DTG-F03 020-901	2.19	1.91	2.30	2.30	2.30	1/4
DTG-F03 250-901	2.7	1.91	2.70	2.70	2.79	5/16
DTG-F03 030-901	4.09	3.01	4.21	4.21	4.21	3/8
DTG-F03 040-901	6.99	4.89	7.11	6.99	7.11	1/2
DTG-F05 020-901	2.39	1.71	2.39	2.39	2.39	1/4
DTG-F05 250-901	3.10	2.10	3.10	3.10	3.21	5/16
DTG-F05 030-901	6.8	4.81	6.91	6.8	6.99	3/8
DTG-F05 040-901	7.19	5.09	7.31	7.31	7.39	1/2
DTG-F05 050-901	9.90	6.99	10.1	10.0	10.2	5/8
DTG-F08 020-901	2.39	1.71	2.39	2.39	2.39	1/4
DTG-F08 250-901	3.30	2.30	3.41	3.3	3.41	5/16
DTG-F08 030-901	7.11	5.00	7.19	7.11	7.31	3/8
DTG-F08 040-901	8.70	6.11	8.90	8.79	9.01	1/2
DTG-F08 050-901	12.7	9.01	13.0	12.9	13.1	5/8
DTG-F16 020-901	3.10	2.19	3.21	3.10	3.21	1/4
DTG-F16 250-901	3.30	2.30	3.41	3.30	3.41	5/16
DTG-F16 030-901	7.31	5.09	7.39	7.39	7.51	3/8
DTG-F16 040-901	9.21	6.51	9.41	9.30	9.61	1/2
DTG-F16 050-901	12.3	8.70	12.4	12.4	12.6	5/8
DTG-F16 060-901	13.2	9.30	13.4	13.3	13.6	3/4
DTG-F16 030-901	13.4	9.50	13.7	13.6	13.8	7/8
DTG-F30 030-901	7.31	5.09	7.39	7.39	7.51	3/8
DTG-F30 040-901	9.41	6.60	9.61	9.50	9.70	1/2
DTG-F30 050-901	13.0	9.10	13.2	13.1	13.3	5/8
DTG-F30 060-901	17.8	12.5	18.1	18.0	18.3	3/4
DTG-F30 070-901	17.9	12.6	18.2	18.1	18.4	7/8
DTG-F30 090-901	20.1	14.8	21.4	21.2	21.6	1-1/8
DTG-F41 040-901	10.0	6.99	10.2	10.1	10.3	1/2
DTG-F41 050-901	17.3	12.2	17.6	17.5	17.8	5/8
DTG-F41 070-901	25.7	18.1	26.1	26.0	26.4	7/8
DTG-F41 090-901	26.2	18.4	26.6	26.4	26.9	1-1/8
DTG-F75 070-901	26.0	18.2	26.4	26.1	26.7	7/8
DTG-F75 090-901	27.1	19.1	27.6	27.4	27.9	1-1/8

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DATA SHEETS



Bi-Flow Filter Drier (Sealed Type)

STG/L SERIES

SOLID FILTER CORE

REFRIGERANT
R-22, R-134a, R-404A,
R-407C, R-410A, R-507

FILTRATION
20 µm

LARGE TEMPERATURE
SERVICE RANGE
-22°F to +248°F

PS
700 psig



STG series feature bi-directional flow for use in heat pump systems.

SAE FLARE CONNECTION

Model	Capacity (tons) ¹⁾					Conn.ction SAE Flare (inch)
	R-134a	R-404A/R-507	R-22	R-407C ²⁾	R-410A	
STG-F05 024-901	2.1	1.51	2.19	2.19	2.19	1/4
STG-F05 034-901	4.69	3.3	4.81	4.69	4.81	3/8
STG-F05 044-901	7.11	5	7.19	7.11	7.19	1/2
STG-F08 024-901	2.5	1.71	2.5	2.5	2.5	1/4
STG-F08 034-901	4.89	3.41	5	4.89	5	3/8
STG-F08 044-901	7.31	5.09	7.51	7.39	7.51	1/2
STG-F16 034-901	5.6	3.9	5.69	5.6	5.69	3/8
STG-F16 044-901	8.59	6.11	8.79	8.7	8.79	1/2
STG-F16 054-901	9.7	6.8	9.9	9.81	10	5/8
STG-F30 034-901	7.11	5	7.19	7.11	7.31	3/8
STG-F30 044-901	8.79	6.2	9.01	9.01	9.1	1/2
STG-F30 054-901	10.1	7.11	10.3	10.2	10.4	5/8
STG-F30 064-901	11.3	7.99	11.4	11.3	11.5	3/4

SELECTION FORMULAS

Filter Drier for liquid line are manufactured in compliance with AHRI Standard 710. Maximum flow rate of liquid refrigerant at a differential pressure of 1psi is indicated by tons which is based on the temperature of liquid refrigerant 86°F and the following mass flow:

- 3.1 lb/min/ton R-134a
- 4.1 lb/min/ton R-404A, R-507
- 3.0 lb/min/ton R-22, R-407C
- PS: 4.83 MPa
- 2.8 lb/min/ton R-410A

Note: Data on water absorption is based on the following EPD (method: ASHRAE Standard 63.1):

- 60ppm R-22
- 15ppm R-12
- 30ppm R-502
- 50ppm R-134a, R-404A, R-507, R-410A, R-407C

Note: The above data is based on clean system at ideal conditions; with impurities accumulated in the filter, the flow may decrease.

SOLDER CONNECTION

Model	Capacity (tons) ¹⁾					Connection Solder (inch)
	R-134a	R-404A/R-507	R-22	R-407C ²⁾	R-410A	
STG-F05 020-901	2.1	1.51	2.19	2.19	2.19	1/4
STG-F05 030-901	4.69	3.3	4.81	4.69	4.81	3/8
STG-F05 040-901	7.11	5	7.19	7.11	7.19	1/2
STG-F08 020-901	2.5	1.71	2.5	2.5	2.5	1/4
STG-F08 250-901	4.49	3.1	4.61	4.49	4.61	5/16
STG-F08 030-901	4.89	3.41	5	4.89	5	3/8
STG-F08 040-901	7.31	5.09	7.51	7.39	7.51	1/2
STG-F16 030-901	5.6	3.9	5.69	5.6	5.69	3/8
STG-F16 040-901	8.59	6.11	8.79	8.7	8.79	1/2
STG-F16 050-901	9.7	6.8	9.9	9.81	10	5/8
STG-F16 070-901	12	8.5	12.2	12.1	12.3	7/8
STG-F30 030-901	7.11	5	7.19	7.11	7.31	3/8
STG-F30 040-901	8.79	6.2	9.01	9.01	9.1	1/2
STG-F30 050-901	10.1	7.11	10.3	10.2	10.4	5/8
STG-F30 060-901	11.3	7.99	11.4	11.3	11.5	3/4
STG-F30 070-901	13.2	9.21	13.4	13.3	13.5	7/8
STG-F30 090-901	15.4	10.81	15.7	15.5	15.8	1-1/2

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