



*AIR CONDITIONING*

*COMMERCIAL  
REFRIGERATION*

*HEAT PUMP*



***STANDARD*** PRODUCT CATALOGUE

# SUMMARY

<b>SANHUA</b> “Strive for perfection, Pursuit of excellence”	<b>03</b>
<b>4 WAY REVERSING VALVE SHF SERIES</b>	<b>06</b>
<b>4 WAY REVERSING VALVE SHF (HP) SERIES</b>	<b>13</b>
<b>ELECTRONIC EXPANSION VALVE DPF-T/S SERIES</b>	<b>17</b>
<b>SOLENOID VALVE MDF SERIES</b>	<b>21</b>
<b>SOLENOID VALVE FDF N/C SERIES</b>	<b>25</b>
<b>SOLENOID VALVE FDF N/O SERIES</b>	<b>27</b>
<b>THERMOSTATIC EXPANSION VALVE RFKA SERIES</b>	<b>30</b>
<b>BALL VALVE SBV SERIES</b>	<b>33</b>
<b>CHECK VALVE PISTON TYPE YCV SERIES</b>	<b>36</b>
<b>SIGHT GLASS SYJ SERIES</b>	<b>39</b>
<b>BRASS SERVICE VALVE SSV SERIES</b>	<b>41</b>
<b>CHARGE VALVE TCJ SERIES</b>	<b>42</b>
<b>UNI-FLOW FILTER DRIER DTG/L SERIES</b>	<b>44</b>
<b>BI-FLOW FILTER DRIER STG/L SERIES</b>	<b>53</b>
<b>COPPER FILTER DRIER BGQ SERIES</b>	<b>60</b>

# SANHUA

## “Strive for perfection, Pursuit of excellence”

Sanhua is a leading HVAC&R manufacturer of controls and components with a global footprint and 30 years of experience. Our co-operation with the largest companies in the Automotive, Appliance and HVAC&R industry makes Sanhua a leading worldwide OEM supplier providing the highest quality components at the most competitive price.

Furthermore, strategic acquisitions by Sanhua of leading HVAC brands such as Ranco and Aweco and joint venture projects with Danfoss transformed Sanhua into one of the largest manufacturers of Expansion, Solenoid and Reversing Valves with annual valve sales exceeding 100 Million pieces.

### **SANHUA IS LISTED IN TOP 100 STRONGEST CHINESE INDUSTRIAL BRANDS.**

After sustainable growth over the last 3 decades, Sanhua have made significant progress to introduce a comprehensive range of controls

and line components for the Commercial Air conditioning and Refrigeration Industries and to increase its service level coverage in the most important European markets.

## QUALITY AND R&D

The company has a sufficient number of modern manufacturing equipment, advanced production engineering and effective control tools.

Products of Sanhua have passed many international and domestic safety certificates such as CQC, CE, TÜV, UL, VDE, and have gained trust and satisfaction from customers with reliable and continuous-improving quality.

ISO9001 Quality Management System  
ISO14001 Environment Manag.System  
QC080000 Hazardous Substance  
ISO10012 Measurement Manag System\*\*

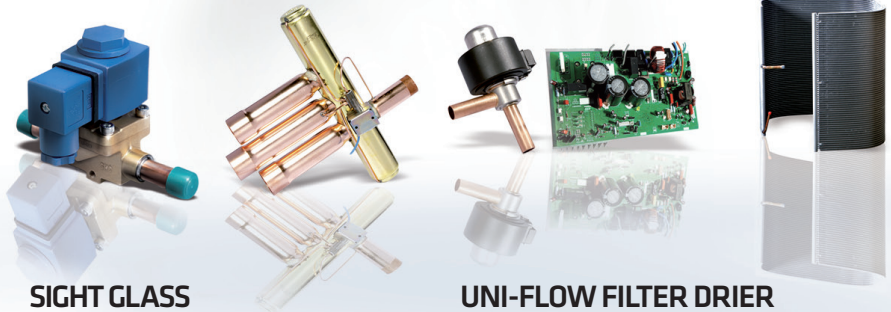


## \*STANDARD PRODUCT FAMILIES

**4 WAY REVERSING VALVE**  
SHF SERIES  
**4 WAY REVERSING VALVE**  
SHF (HP) SERIES  
**ELECTRONIC EXPANSION VALVE** DPF-T/S SERIES

**SOLENOID VALVE**  
MDF SERIES  
**SOLENOID VALVE**  
FDF N/C SERIES  
**SOLENOID VALVE**  
FDF N/O SERIES

**THERMOSTATIC EXPANSION VALVE** RFKA SERIES  
**BALL VALVE**  
SBV series  
**CHECK VALVE PISTON TYPE**  
YCV series



**SIGHT GLASS**  
SYJ series

**BRASS SERVICE VALVE**  
SSV series

**CHARGE VALVE**  
TCJ series

**UNI-FLOW FILTER DRIER**  
DTG/L series

**BI-FLOW FILTER DRIER**  
STG/L series

**COOPER FILTER DRIER**  
BGQ series

\*customized and total product line is included in the general product catalogue.

## GLOBAL FOOTPRINT & LOCAL SUPPORT



- Technical Service Hotline in 4 languages (English, Italian, German and Spanish)
- On site engineering support on request.
- Online Data Sheets and product catalogues.
- 72 hours delivery service for standard stocked items within the European Union.
- B2B Customer Platform, on line 24x7 order & stock management.



*2 out of 3 AC units are equipped  
with a **SANHUA**  
reversing valve*

**YEARLY SANHUA SUPPLIES OVER  
50 MILLION FOUR WAY REVERSING  
VALVES TO THE COMMERCIAL AND  
RESIDENTIAL HVAC INDUSTRY  
WORLDWIDE**



DISCOVER  
**WHY**

[www.sanhuaeurope.com](http://www.sanhuaeurope.com)

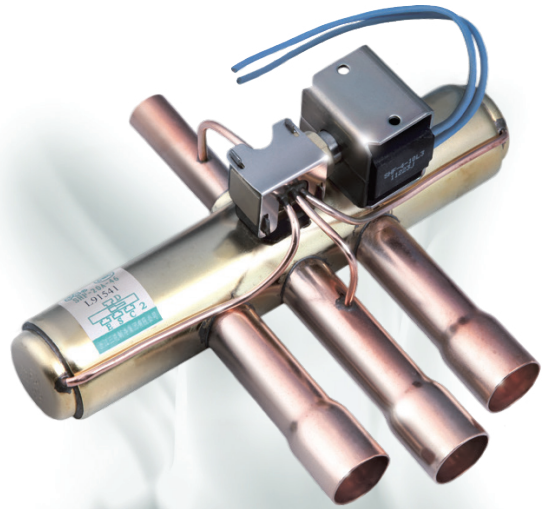


CHILLING *IDEAS* WORLDWIDE

SANHUA INTERNATIONAL EUROPE  
[info@sanhuaeurope.com](mailto:info@sanhuaeurope.com)

# 4 Way Reversing Valve

SHF series four-way reversing valves are applicable for heat pump systems such as central, unitary and room air conditioners to realize switching between cooling mode and heating mode by changing the flow path of refrigerant.



## FEATURES

- WIDE APPLICATION RANGE
- SUITABLE FOR COOLING CAPACITIES FROM 3 TO 240 KW (0,9 TO 69 TONS)
- SEVERAL DESIGNS AVAILABLE

## GENERAL SPECIFICATIONS

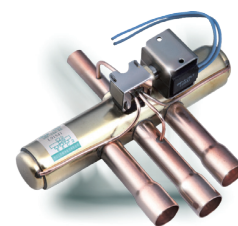
- Applicable for all common HCFC and HFC refrigerants such as: R22, R134a, R404A, R407C, R410A, R507
- Min./max. ambient temperature: -25°C to +70°C
- PS: 4,2 MPa
- TS min./max.: -30°C / +120°C
- Relative humidity below 95%
- Certifications: PED & UL, VDE

## NOMINAL OPERATING CONDITIONS

Nominal operating conditions	Condition 1:	Condition 2:
Condensing Temperature t <sub>c</sub>	38°C	54,4°C
Evaporating Temperature t <sub>o</sub>	5°C	7,2°C
SuperHeating dt <sub>oh</sub>	5K	5K
SubCooling dt <sub>u</sub>	0K	5K

# SHF SERIES

## 4 Way Reversing Valve

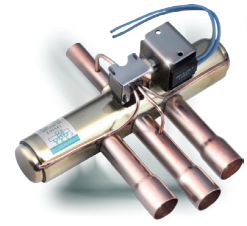


### GENERAL CHARACTERISTICS

Model	Part Number	Port	Kv Factor	Connections Size ODF		PS	Operating Pressure Difference ΔP		PED category
				D-tube	E/S/C Tube		MAX	MIN	
		[mm]	[m3/h]	Ø [in]	Ø [in]	[MPa]	[MPa]	[MPa]	
SHF(L)-4H-23U	SHF-19001	8,0	1,6	5/16	3/8	4,2	3,1	0,25	3,3
SHF(L)-7H-34U	SHF-19002	11,1	2,9	3/8	1/2	4,2	3,1	0,25	3,3
SHF(L)-9H-35U	SHF-19003	11,5	3	3/8	5/8	4,2	3,1	0,34	3,3
SHF(L)-11H-45D1	SHF-19004	11,5	3,2	1/2	5/8	4,2	3,1	0,34	3,3
SHF-14-46	SHF-50001	13,5	6,4	1/2	3/4	4,2	3,1	0,34	3,3
SHF-14-47	SHF-50002	13,5	6,4	1/2	7/8	4,2	3,1	0,34	3,3
SHF-14-57	SHF-50003	13,5	6,4	5/8	7/8	4,2	3,1	0,34	3,3
SHF-20A-46-02	SHF-50004	15,6	7,4	1/2	3/4	4,2	3,1	0,34	3,3
SHF-20A-47	SHF-50005	15,6	7,4	1/2	7/8	4,2	3,1	0,34	3,3
SHF-20A-57	SHF-50006	15,6	7,4	5/8	7/8	4,2	3,1	0,34	3,3
SHF-20A-67	SHF-50007	15,6	7,4	3/4	7/8	4,2	3,1	0,34	3,3
SHF-20D-46-02	SHF-50008	17,2	9,5	1/2	3/4	4,2	3,1	0,34	3,3
SHF-35A-47	SHF-50009	20,0	12,4	1/2	7/8	4,2	3,1	0,34	3,3
SHF-35A-57	SHF-50010	20,0	12,4	5/8	7/8	4,2	3,1	0,34	3,3
SHF-35A-59	SHF-50011	20,0	12,4	5/8	9/8	4,2	3,1	0,34	3,3
SHF-35A-67	SHF-50012	20,0	12,4	3/4	7/8	4,2	3,1	0,34	3,3
SHF-35A-69	SHF-50013	20,0	12,4	3/4	9/8	4,2	3,1	0,34	3,3
SHF-35A-79	SHF-50014	20,0	12,4	7/8	9/8	4,2	3,1	0,34	3,3
SHF-35B-67-02	SHF-50015	20,9	13,7	3/4	7/8	4,2	3,1	0,34	3,3
SHF-50-911D2	SHF-50016	25,6	13,8	1-1/8	1-3/8	4,2	3,1	0,34	I
SHF(L)-70-810	SHF-50017	28,6	28,8	1	1-1/4	4,2	3,1	0,34	I
SHF(L)-100-1012	SHF-50018	34,8	39,3	1-1/4	1-1/2	4,2	3,1	0,34	I
SHF(L)-140-1214	SHF-50019	41,0	58,3	1-1/2	1-3/4	4,2	3,1	0,34	I
SHF(L)-175-1217	SHF-50020	46,4	70,3	1-1/2	2-1/8	4,2	3,1	0,34	I
SHF(L)-210-1321	SHF-50021	50,0	79,7	1-5/8	2-5/8	4,2	3,1	0,34	I

# SHF SERIES

## 4 Way Reversing Valve



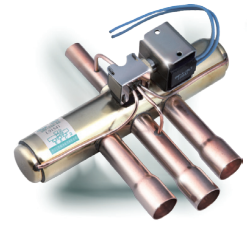
### CAPACITY SELECTION

Model	Part Number	Nominal Capacity (condition 1)							
		R407C		R410A		R134a		R404A / R507	
		$\Delta P:$ 0,1 bar	$\Delta P:$ 0,2 bar	$\Delta P:$ 0,1 bar	$\Delta P:$ 0,2 bar	$\Delta P:$ 0,1 bar	$\Delta P:$ 0,2 bar	$\Delta P:$ 0,1 bar	$\Delta P:$ 0,2 bar
		[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]
SHF(L)-4H-23U	SHF-19001	3,3	4,6	3,9	5,4	2,4	3,5	2,4	3,5
SHF(L)-7H-34U	SHF-19002	5,7	8,1	6,7	9,5	4,3	6,0	4,3	6
SHF(L)-9H-35U	SHF-19003	7,3	10,4	8,7	12,2	5,5	7,8	5,5	7,8
SHF(L)-11H-45D1	SHF-19004	9,0	12,7	10,6	14,9	6,7	9,5	6,7	9,5
SHF-14-46	SHF-50001	11,4	16,1	13,5	19,0	8,6	12,1	8,6	12,1
SHF-14-47	SHF-50002	11,4	16,1	13,5	19,0	8,6	12,1	8,6	12,1
SHF-14-57	SHF-50003	11,4	16,1	13,5	19,0	8,6	12,1	8,6	12,1
SHF-20A-46	SHF-50004	16,3	23,0	19,3	27,2	12,2	17,3	12,2	17,3
SHF-20A-47	SHF-50005	16,3	23,0	19,3	27,2	12,2	17,3	12,2	17,3
SHF-20A-57	SHF-50006	16,3	23,0	19,3	27,2	12,2	17,3	12,2	17,3
SHF-20A-67	SHF-50007	16,3	23,0	19,3	27,2	12,2	17,3	12,2	17,3
SHF-20D-46-02	SHF-50008	19,1	27,0	22,6	31,8	14,3	20,2	14,3	20,2
SHF-35A-47	SHF-50009	28,6	40,3	33,7	47,5	21,4	30,2	21,4	30,2
SHF-35A-57	SHF-50010	28,6	40,3	33,7	47,5	21,4	30,2	21,4	30,2
SHF-35A-59	SHF-50011	28,6	40,3	33,7	47,5	21,4	30,2	21,4	30,2
SHF-35A-67	SHF-50012	28,6	40,3	33,7	47,5	21,4	30,2	21,4	30,2
SHF-35A-69	SHF-50013	28,6	40,3	33,7	47,5	21,4	30,2	21,4	30,2
SHF-35A-79	SHF-50014	28,6	40,3	33,7	47,5	21,4	30,2	21,4	30,2
SHF-35B-67-02	SHF-50015	28,6	40,3	33,7	47,5	21,4	30,2	21,4	30,2
SHF-50-911D2	SHF-50016	29	40,9	34,2	48,3	21,8	30,7	21,8	30,7
SHF(L)-70-810	SHF-50017	57,1	80,6	67,4	95,1	42,9	60,4	42,9	60,4
SHF(L)-100-1012	SHF-50018	81,6	115,1	96,3	135,8	61,2	86,3	61,2	86,3
SHF(L)-140-1214	SHF-50019	114,3	161,1	134,9	190,1	85,7	120,9	85,7	120,9
SHF(L)-175-1217	SHF-50020	142,9	201,4	168,6	237,7	107,1	151,1	107,1	151,1
SHF(L)-210-1321	SHF-50021	171,4	241,7	202,3	285,2	128,6	181,3	128,6	181,3



# SHF SERIES

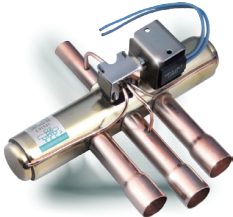
## 4 Way Reversing Valve



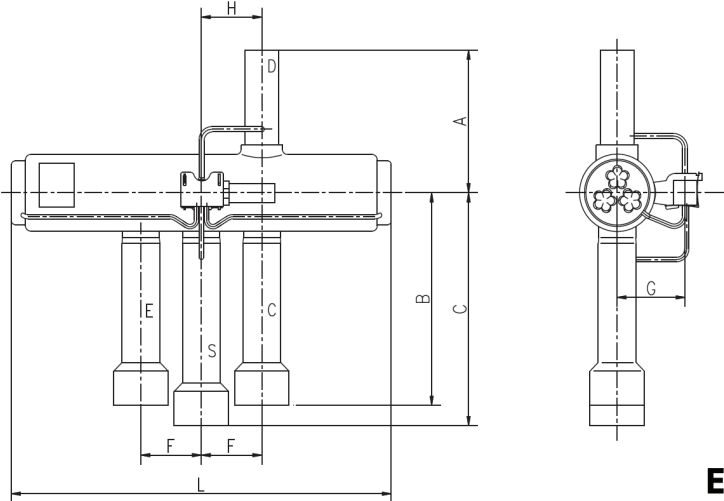
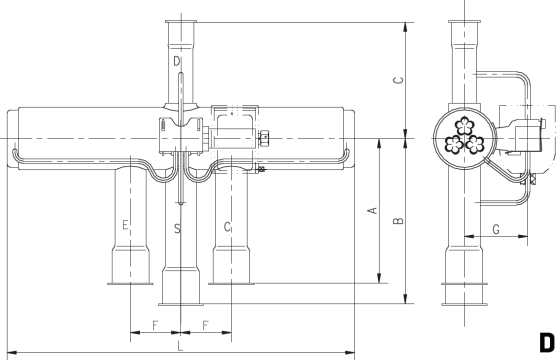
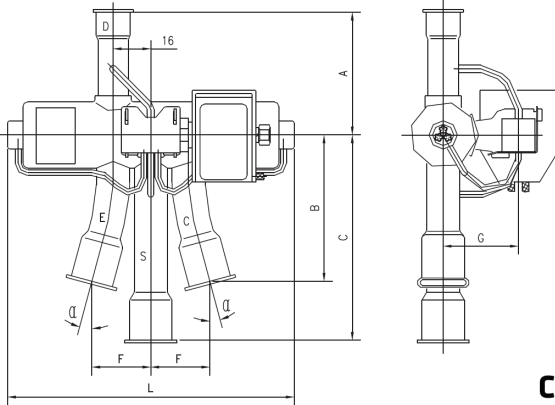
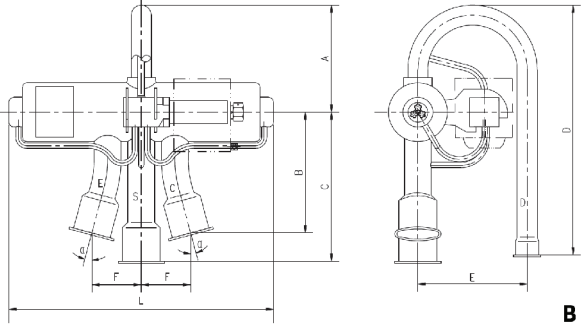
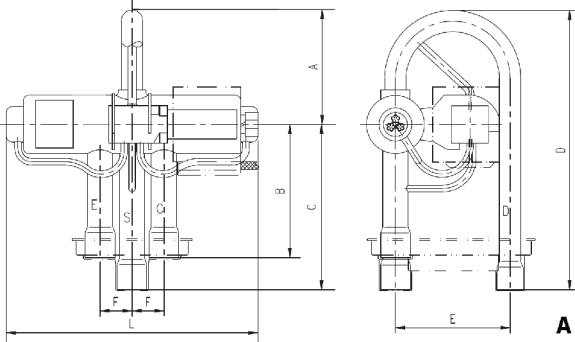
### CAPACITY SELECTION

Model	Part Number	Nominal Capacity (condition 2)							
		R407C		R410A		R134a		R404A / R507	
		$\Delta P:$ 0,1 bar	$\Delta P:$ 0,2 bar	$\Delta P:$ 0,1 bar	$\Delta P:$ 0,2 bar	$\Delta P:$ 0,1 bar	$\Delta P:$ 0,2 bar	$\Delta P:$ 0,1 bar	$\Delta P:$ 0,2 bar
		[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]
SHF(L)-4H-23U	SHF-19001	3,0	4,3	3,6	5,0	2,3	3,2	2,3	3,2
SHF(L)-7H-34U	SHF-19002	5,3	7,5	6,2	8,8	4,0	5,6	4,0	5,6
SHF(L)-9H-35U	SHF-19003	6,8	9,6	8,0	11,3	5,1	7,2	5,1	7,2
SHF(L)-11H-45D1	SHF-19004	8,3	11,7	9,8	13,8	6,2	8,8	6,2	8,8
SHF-14-46	SHF-50001	10,6	14,9	12,5	17,6	7,9	11,2	7,9	11,2
SHF-14-47	SHF-50002	10,6	14,9	12,5	17,6	7,9	11,2	7,9	11,2
SHF-14-57	SHF-50003	10,6	14,9	12,5	17,6	7,9	11,2	7,9	11,2
SHF-20A-46	SHF-50004	15,1	21,3	17,8	25,2	11,3	16,0	11,3	16,0
SHF-20A-47	SHF-50005	15,1	21,3	17,8	25,2	11,3	16,0	11,3	16,0
SHF-20A-57	SHF-50006	15,1	21,3	17,8	25,2	11,3	16,0	11,3	16,0
SHF-20A-67	SHF-50007	15,1	21,3	17,8	25,2	11,3	16,0	11,3	16,0
SHF-20D-46-02	SHF-50008	17,7	25,0	20,9	29,5	13,3	18,7	13,3	18,7
SHF-35A-47	SHF-50009	26,5	37,3	31,2	44,0	19,8	28,0	19,8	28,0
SHF-35A-57	SHF-50010	26,5	37,3	31,2	44,0	19,8	28,0	19,8	28,0
SHF-35A-59	SHF-50011	26,5	37,3	31,2	44,0	19,8	28,0	19,8	28,0
SHF-35A-67	SHF-50012	26,5	37,3	31,2	44,0	19,8	28,0	19,8	28,0
SHF-35A-69	SHF-50013	26,5	37,3	31,2	44,0	19,8	28,0	19,8	28,0
SHF-35A-79	SHF-50014	26,5	37,3	31,2	44,0	19,8	28,0	19,8	28,0
SHF-35B-67-02	SHF-50015	26,5	37,3	31,2	44,0	19,8	28,0	19,8	28,0
SHF-50-911D2	SHF-50016	26,9	37,9	31,7	44,7	20,1	28,4	20,1	28,4
SHF(L)-70-810	SHF-50017	52,9	74,6	62,4	88,0	39,7	56,0	39,7	56,0
SHF(L)-100-1012	SHF-50018	75,6	106,6	89,2	125,8	56,7	79,9	56,7	79,9
SHF(L)-140-1214	SHF-50019	105,8	149,2	124,9	176,1	79,4	111,9	79,4	111,9
SHF(L)-175-1217	SHF-50020	132,3	186,5	156,1	220,1	99,2	139,9	99,2	139,9
SHF(L)-210-1321	SHF-50021	158,7	223,8	187,3	264,1	119,0	167,9	119,0	167,9

# SHF SERIES 4 Way Reversing Valve

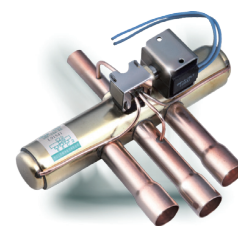


## DIMENSIONS



# SHF SERIES

## 4 Way Reversing Valve

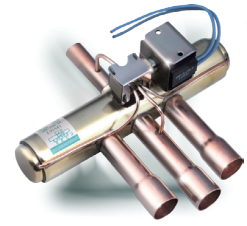


### DIMENSIONS

Model	Part Number	Valve Style	L	A	B	C	D	E	F	G	H	Angle $\alpha$	Reference Weight
			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]
SHF(L)-4H-23U	SHF-19001	A	94,4	43	50	62	105	43	12	-	-	0	0,20
SHF(L)-7H-34U	SHF-19002	A	113	51	59	71	119	52	16	-	-	0	0,28
SHF(L)-9H-35U	SHF-19003	B	115,5	51	57	72	119	52	23,5	-	-	15	0,30
SHF(L)-11H-45D1	SHF-19004	C	121,5	52	62	87	-	-	25	31,5	-	15	0,32
SHF-14-46	SHF-50001	D	184,2	67	83	95	-	-	28,6	35,5	-	0	0,72
SHF-14-47	SHF-50002	D	184,2	67	83	95	-	-	28,6	35,5	-	0	0,72
SHF-14-57	SHF-50003	D	184,2	67	83	95	-	-	28,6	35,5	-	0	0,72
SHF-20A-46	SHF-50004	D	176	67	83	95	-	-	28,6	35,5	-	0	0,75
SHF-20A-47	SHF-50005	D	176	67	83	95	-	-	28,6	35,5	-	0	0,75
SHF-20A-57	SHF-50006	D	176	67	83	95	-	-	28,6	35,5	-	0	0,75
SHF-20A-67	SHF-50007	D	176	67	83	95	-	-	28,6	35,5	-	0	0,75
SHF-20D-46-02	SHF-50008	D	183,6	67	83	95	-	-	28,6	35,5	-	0	0,75
SHF-35A-47	SHF-50009	D	211	82	87	100	-	-	33	40	-	0	1,30
SHF-35A-57	SHF-50010	D	211	82	87	100	-	-	33	40	-	0	1,30
SHF-35A-59	SHF-50011	D	211	82	87	100	-	-	33	40	-	0	1,30
SHF-35A-67	SHF-50012	D	211	82	87	100	-	-	33	40	-	0	1,30
SHF-35A-69	SHF-50013	D	211	82	87	100	-	-	33	40	-	0	1,30
SHF-35A-79	SHF-50014	D	211	82	87	100	-	-	33	40	-	0	1,30
SHF-35B-67-02	SHF-50015	D	213	82	87	100	-	-	33	40	-	0	1,30
SHF-50-911D2	SHF-50016	E	269	97	149	174			41,3	40	41,3	0	2,10
SHF(L)-70-810	SHF-50017	D	303	111,8	117	131			46	86		0	3,00
SHF(L)-100-1012	SHF-50018	D	321	111,8	117	131			49	86		0	3,50
SHF(L)-140-1214	SHF-50019	D	390	135,6	148,7	168,7			58	97		0	7,20
SHF(L)-175-1217	SHF-50020	D	390	135,6	148,7	168,7			58	97		0	7,60
SHF(L)-210-1321	SHF-50021	D	452	135,6	148,7	168,7			71,5	97		0	8,70

# SHF SERIES

## 4 Way Reversing Valve

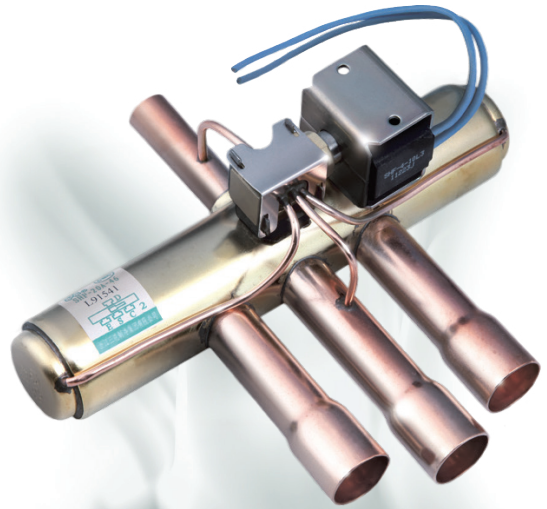


### COIL CHARACTERISTICS

Model	Part Number	Electrical function / connection Type	Cable Length [mm]	Power Supply [-]	Rated Voltage [V]	Power Consumption			Protection Grade [-]	Insulation class [-]	Max working temp. [°C]
						AC 50Hz [W]	AC 60Hz [W]	DC [W]			
SHF-4-10L3	SHF-56001	Lead Wires	500	AC	220 to 240	4,5	3,5	-	IP54	B	130
SHF-4-10L2	SHF-56002	Lead Wires	500	AC	200	4,5	3,5	-	IP54	B	130
SHF-4-10L1	SHF-56003	Lead Wires	500	AC	100	4,5	3,5	-	IP54	B	130
SHF-4-10L4	SHF-56004	Lead Wires	500	AC	110 to 120	4,5	3,5	-	IP54	B	130
SHF-4-10L5	SHF-56005	Lead Wires	500	AC	24	4,5	3,5	-	IP54	B	130
SHF-4-10L6	SHF-56006	Lead Wires	500	AC	265 to 277	4,5	3,5	-	IP54	B	130
SHF-4-10W11	SHF-56007	Lead Wires	500	AC	220	6	5	-	IP54	B	130
SHF-4-10W12	SHF-56008	Lead Wires	500	AC	220 to 240	6	5	-	IP54	B	130
SHF-4-10W13	SHF-56009	Lead Wires	500	AC	100	6	5	-	IP54	B	130
SHF-4-10W14	SHF-56010	Lead Wires	500	AC	200	6	5	-	IP54	B	130
SHF-4-10WD2	SHF-56011	Lead Wires	500	DC	35	-	-	7	IP54	B	130
SHF-4-10FA5	SHF-56012	Spade Conn. (Faston)	-	AC	220 to 240	6	5	-	IP00	F	155
SHF-4-10FA1	SHF-56013	Spade Conn. (Faston)	-	AC	220	6	5	-	IP00	F	155
SHF-4-10FA2	SHF-56014	Spade Conn. (Faston)	-	AC	115 to 120	6	5	-	IP00	F	155
SHF-4-10FA3	SHF-56015	Spade Conn. (Faston)	-	AC	100 to 110	6	5	-	IP00	F	155
SHF-4-10FA4	SHF-56016	Spade Conn. (Faston)	-	AC	24	6	5	-	IP00	F	155
SHF-4-10FA6	SHF-56017	Spade Conn. (Faston)	-	AC	265 to 277	6	5	-	IP00	F	155
SHF-4-10FA7	SHF-56018	Spade Conn. (Faston)	-	AC	200	6	5	-	IP00	F	155
SHF-4-10FA8	SHF-56019	Spade Conn. (Faston)	-	DC	12	-	-	10	IP00	F	155
SHF-4-10FA9	SHF-56020	Spade Conn. (Faston)	-	DC	24	-	-	11	IP00	F	155
SQ-A27100-010001	SHF-56021	Bistable / Lead Wires	500	AC	100	18	18	-	IP54	B	130
SQ-A27200-010001	SHF-56022	Bistable / Lead Wires	500	AC	200	18	18	-	IP54	B	130
SQ-D27012-010001	SHF-56023	Bistable / Lead Wires	500	DC	12	-	-	20	IP54	B	130

# 4 Way Reversing Valve

SHF (HP) series four-way reversing valves are designed especially for usage in heat pump systems to realize switching between cooling mode and heating mode by changing the flow path of the refrigerant.



## FEATURES

- WIDE APPLICATION RANGE
- SUITABLE FOR COOLING CAPACITIES FROM 3 TO 40 KW (0,9 TO 11 TONS)
- SEVERAL DESIGNS AVAILABLE

## GENERAL SPECIFICATIONS

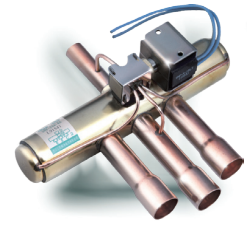
- Applicable for all common HCFC and HFC refrigerants such as: R22, R134a, R404A, R407C, R410A, R507
- Min./max. ambient temperature: -25°C to +70°C
- PS: 4,5 MPa
- TS min./max.: -30°C / +135°C
- Max. OPD: 4,0 MPa
- Relative humidity below 95%
- Certifications: PED & UL, VDE

## NOMINAL OPERATING CONDITIONS

Nominal operating conditions	Condition 1:	Condition 2:
Condensing Temperature t <sub>c</sub>	38°C	54°C
Evaporating Temperature t <sub>o</sub>	5°C	7,2°C
SuperHeating dt <sub>oh</sub>	5K	5K
SubCooling dt <sub>u</sub>	0K	5K

# SHF (HP) SERIES

## 4 Way Reversing Valve



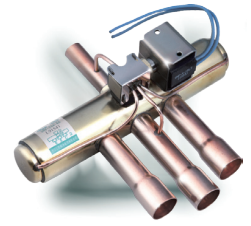
### GENERAL CHARACTERISTICS

Model	Part Number	Port	Kv Factor	Connections Size ODF		PS	Operating Pressure Difference $\Delta P$		PED category
				D-tube	E/S/C Tube		MAX	MIN	
		[mm]	[m3/h]	$\varnothing$ [in]	$\varnothing$ [in]	[MPa]	[MPa]	[MPa]	
SHF(L)-4H-23U-E	SHF-19005	8	1,6	5/16	3/8	4,5	4,0	0,25	3,3
SHF(L)-7H-34U-E	SHF-19006	11,1	2,9	3/8	1/2	4,5	4,0	0,25	3,3
SHF-20D-46-02	SHF-50022	17,2	9,5	1/2	3/4	4,5	4,0	0,34	3,3
SHF-35B-67-02	SHF-50023	20,9	13,7	3/4	7/8	4,5	4,0	0,34	3,3

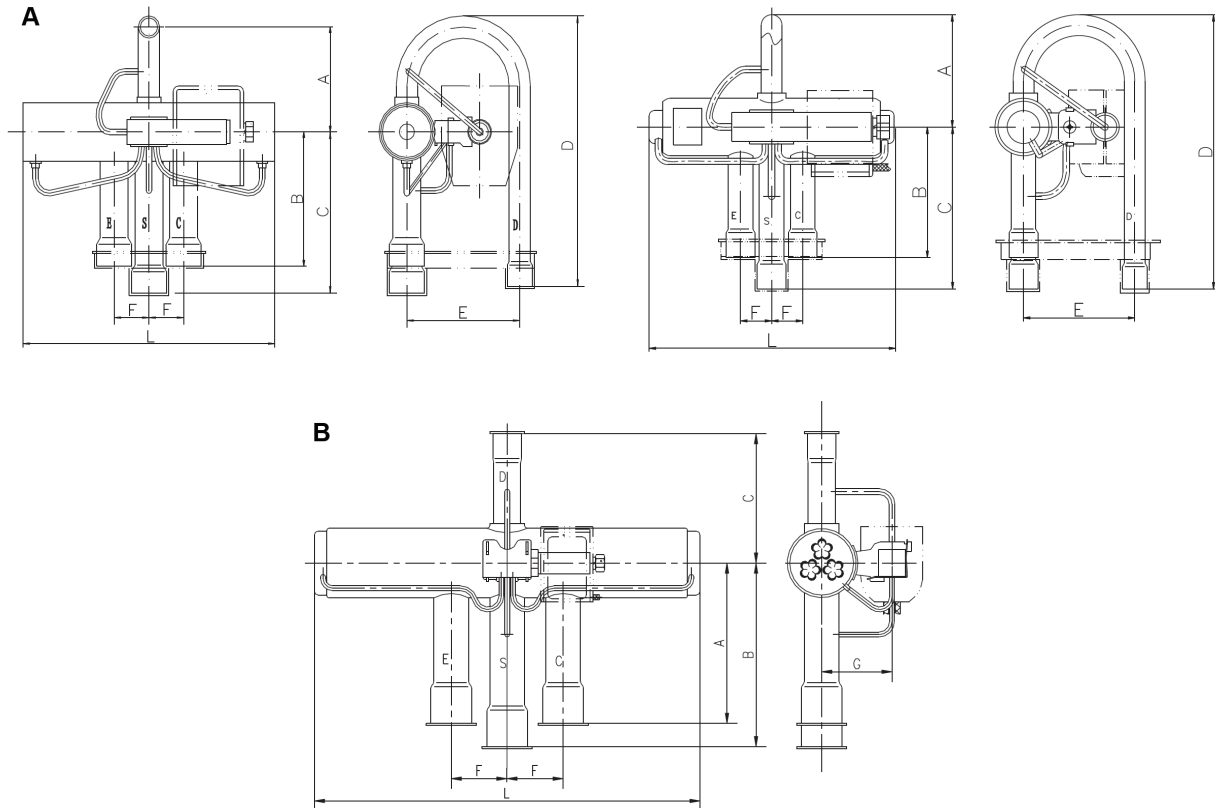
### CAPACITY SELECTION

Model	Part Number	Nominal Capacity (condition 1)							
		R407C		R410A		R134a		R404A / R507	
		$\Delta P$ : 0,1 bar	$\Delta P$ : 0,2 bar	$\Delta P$ : 0,1 bar	$\Delta P$ : 0,2 bar	$\Delta P$ : 0,1 bar	$\Delta P$ : 0,2 bar	$\Delta P$ : 0,1 bar	$\Delta P$ : 0,2 bar
		[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]
SHF(L)-4H-23U-E	SHF-19005	3,3	4,6	3,9	5,4	2,4	3,5	2,4	3,5
SHF(L)-7H-34U-E	SHF-19006	6,8	9,5	8	11,2	5,1	7,1	5,1	7,1
SHF-20D-46-02	SHF-50022	19,1	27	22,6	31,8	14,3	20,2	14,3	20,2
SHF-35B-67-02	SHF-50023	29	40,9	34,2	48,3	21,8	30,7	21,8	30,7
Model	Part Number	Nominal Capacity (condition 2)							
		R407C		R410A		R134a		R404A / R507	
		$\Delta P$ : 0,1 bar	$\Delta P$ : 0,2 bar	$\Delta P$ : 0,1 bar	$\Delta P$ : 0,2 bar	$\Delta P$ : 0,1 bar	$\Delta P$ : 0,2 bar	$\Delta P$ : 0,1 bar	$\Delta P$ : 0,2 bar
		[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]
SHF(L)-4H-23U-E	SHF-19005	3,0	4,3	3,6	5,0	2,3	3,2	2,3	3,2
SHF(L)-7H-34U-E	SHF-19006	6,3	8,8	7,4	10,4	4,7	6,6	4,7	6,6
SHF-20D-46-02	SHF-50022	17,7	25,0	20,9	29,5	13,3	18,7	13,3	18,7
SHF-35B-67-02	SHF-50023	26,9	37,9	31,7	44,7	20,2	28,4	20,2	28,4

# SHF (HP) SERIES 4 Way Reversing Valve



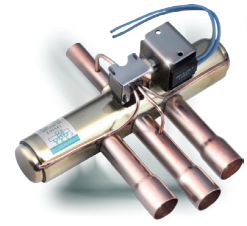
## DIMENSIONS



Model	Part Number	Valve Style	L	A	B	C	D	E	F	G	H	Angle $\alpha$	Reference Weight
			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[kg]
SHF(L)-4H-23U	SHF-19005	A	94,4	43	50	62	105	43	12	-	-	0	0,2
SHF(L)-7H-34U	SHF-19006	A	113	51	59	71	119	52	16	-	-	0	0,28
SHF-20D-46-02	SHF-50022	B	183,6	67	83	95	-	-	28,6	35,5	-	0	0,75
SHF-35B-67-02	SHF-50023	B	213	82	87	100	-	-	33	40	-	0	1,23

# SHF (HP) SERIES

## 4 Way Reversing Valve



### COIL CHARACTERISTICS

Model	Part Number	Electrical function / connection Type	Power Supply	Rated Voltage	Power Consumption			Protection class	Insulation class	Max working temp.
					AC 50Hz	AC 60Hz	DC			
					[-]	[V]	[W]			
SHF-4-10FA5	SHF-56012	Spade (Faston)	AC	220 to 240	6	5	-	IP00	F	155
SHF-4-10FA1	SHF-56013	Spade (Faston)	AC	220	6	5	-	IP00	F	155
SHF-4-10FA2	SHF-56014	Spade (Faston)	AC	115 to 120	6	5	-	IP00	F	155
SHF-4-10FA3	SHF-56015	Spade (Faston)	AC	100 to 110	6	5	-	IP00	F	155
SHF-4-10FA4	SHF-56016	Spade (Faston)	AC	24	6	5	-	IP00	F	155
SHF-4-10FA6	SHF-56017	Spade (Faston)	AC	265 to 277	6	5	-	IP00	F	155
SHF-4-10FA7	SHF-56018	Spade (Faston)	AC	200	6	5	-	IP00	F	155
SHF-4-10FA8	SHF-56019	Spade (Faston)	DC	12	-	-	10	IP00	F	155
SHF-4-10FA9	SHF-56020	Spade (Faston)	DC	24	-	-	11	IP00	F	155



# Electronic Expansion Valve

T/S series electronic expansion valves are designed for usage in air conditioning and refrigeration systems or in heat pumps. The valve supports automatic adjustment of refrigerant flow rate and makes the system work under optimized conditions for the purpose of fast cooling or heating, precise temperature control and energy saving. The valve can also be used e.g. for suction line pressure controls. These valves provide bidirectional operation to control the refrigerant flow rate in heating or cooling mode.



## FEATURES

- APPLICABLE FOR OIL-FREE SYSTEM (T SERIES)
- SMALLER INSTALLATION SPACE: LOW HEIGHT, SMALL VOLUME, LIGHT WEIGHT
- OPTIMIZED FLOW PATH DESIGN FOR NOISE REDUCTION
- FAST OPERATION, ENERGY SAVING
- APPLICABLE FOR REVERSIBLE SYSTEMS LIKE HEAT PUMPS: BIDIRECTIONAL FLOW

## GENERAL SPECIFICATIONS

- Applicable refrigerants: R22, R134A, R404A, R407C, R410A etc.
- Cooling Capacity: 3,5 to 105 kW (R22 Nominal Capacity)
- Medium temperature: -30°C to +70°C (duty cycle rate below 50%)
- Ambient temperature: -30°C to +60°C (duty cycle rate below 50%)
- Relative humidity: below 95% RH
- Installation position: Coil upwards, valve rotor central axis within +/-15° versus vertical axis
- 500 steps (full stroke); 32 ± 20 opening steps

## ELECTRICAL PARAMETERS

- Rated Voltage: 12V DC(+/- 10%), rectangular wave
- Actuating mode: 4-phase 8-step permanent magnet stepping motor of direct-acting type
- Excitation mode: 1 ~ 2 phase excitation, monopole actuation
- Excitation rate: 30 to 90pps (Maintain excitation in stop position min. 0.1~1.0sec. to activate self-holding mechanism.)
- Coil current: 260mA/phase (20°C)
- Coil resistance: 46 +/- 3.7 Ω/phase (20°C)
- Insulation class of coil: E
- Protection class: IP 66

# DPF-T/S SERIES

## Electronic Expansion Valve



### GENERAL CHARACTERISTICS

Model	Part Number	Seat $\phi$ (mm)	Kv (m <sup>3</sup> /h)	Nominal Cooling Capacity (kW)					MOP Max. Oper. Press. (MPa)	MOPD Direct (MPa)	MOPD Rev. (MPa)	
				R22	R134a	R407C	R404A R507	R410A				
DPF(T01)1.3C-07	DPF-09001	1,3	0,05	3,5	2,7	3,5	2,5	4,2	4,2	3,43	$\geq 2.1$	
DPF(T01)1.65C-05	DPF-09002	1,65	0,08	5,3	4,1	5,3	3,7	6,36				
DPF(T01)1.8C-08	DPF-09003	1,8	0,1	7	5,4	7	4,9	8,4				
DPF(T01)2.0C-03	DPF-09004	2	0,16	8,75	6,7	8,75	6,1	10,5				
DPF(T01)2.2C-01	DPF-09005	2,2	0,2	10,5	8,1	10,5	7,4	12,6				
DPF(T01)2.4C-01	DPF-09006	2,4	0,23	17,5	13,5	17,5	12,3	21				
DPF(TS1)3.0C-01	DPF-09007	3	0,39	21	16,2	21	14,7	25,2				$\geq 1.47$
DPF(TS1)3.2C-01	DPF-09008	3,2	0,43	28	21,6	28	19,6	33,6				
DPF(S03)4.0C-01	DPF-09010	4	0,5	42	32,3	42	29,4	50,4				
DPF(S03)4.5C-01	DPF-09011	4,5	0,7	52,5	40,4	52,5	36,8	63				3
DPF(S03)5.5C-01	DPF-09012	5,5	0,9	70	53,9	70	49,0	84				
DPF(S03)6.5C-02	DPF-09013	6,5	1,1	105	80,9	105	73,5	126				

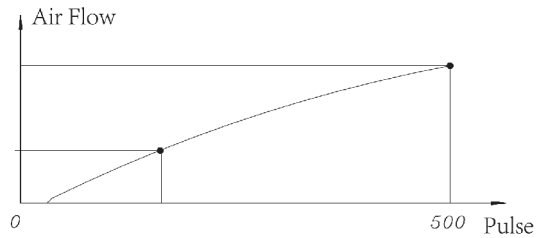
**(\*) Nominal working conditions:** Condensing temperature: 38°C; evaporating temperature 5°C; Sub cooling OK; Superheating OK

# DPF-T/S SERIES

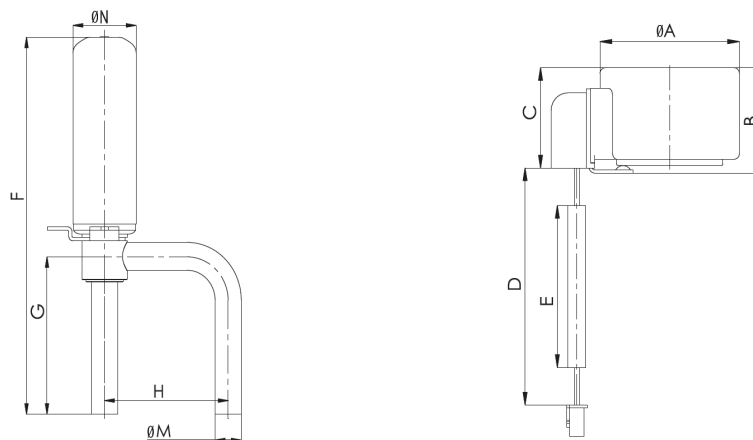
## Electronic Expansion Valve



### FLOW CHARACTERISTIC



### DIMENSIONS



Valve Model	Coil Model	Dimensions (mm)					Part No.
		A	B	C	D	E	
DPF(T01)1.3C-07 to DPF(TS1)3.2C-01	PQ-M10012-000001	38,5	26,4	25,6	700	600	DPF-58001
DPF(S03)4.0C-01 to DPF(S03)6.5C-02	PQ-M03012-000001	67,5	42,4	33	700	600	DPF-58002

**(\*) Nominal working conditions:** Condensing temperature: 38°C; evaporating temperature 5°C; Sub cooling 0K; Superheating 0K

Valve Model	Coil Model	Dimensions (mm)				
		F	G	H	M	N
DPF(T01)1.3C-07 to DPF(T01)2.4C-01	PQ-M10	78	36	30	6,35	17,3
DPF(TS1)3.0C-01 to DPF(TS1)3.2C-01	PQ-M10	82	40	30	7,94	17,3
DPF(S03)4.0C-01 to DPF(S03)6.5C-02	PQ-M03	148	64,7	63,4	15,88	35,3

*Every 2<sup>nd</sup> home refrigerator  
in Europe is equipped*

*with a **SANHUA**  
solenoid valve*

**YEARLY SANHUA SUPPLIES OVER  
20 MILLION SOLENOID VALVES TO  
THE REFRIGERATION, HVAC AND  
HOME APPLIANCES INDUSTRIES  
WORLDWIDE**



*DISCOVER  
**WHY***

[www.sanhuaeurope.com](http://www.sanhuaeurope.com)



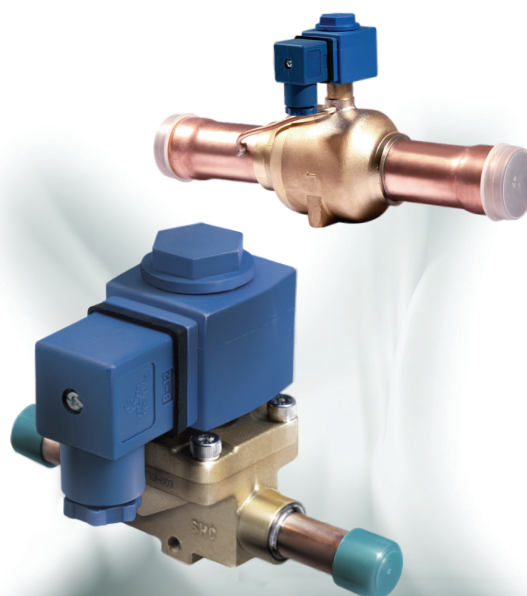
**SANHUA**

**CHILLING IDEAS WORLDWIDE**

**SANHUA INTERNATIONAL EUROPE**  
[info@sanhuaeurope.com](mailto:info@sanhuaeurope.com)

# Solenoid Valve

MDF series solenoid valves are direct operated or pilot operated solenoid valves, mainly used in refrigerant control of various devices such as refrigerating and freezing systems, air conditioners and heat pumps.



## FEATURES

- COILS: LOW ENERGY CONSUMPTION, RELIABLE
- GREAT VALVE OPENING PERFORMANCE, HIGH MOPD
- COILS ARE DOUBLE SEALED, WATER TIGHT AND SAFE

## GENERAL SPECIFICATIONS

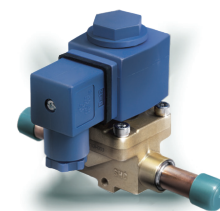
- Refrigerants: R22, R134a, R407C, R404A, R410A etc.
- Medium temperature: -30°C to +105°C
- Ambient temperature: -30°C to +55°C
- Relative humidity: below 95%

## TECNHICAL PARAMETERS

*Electrical Parameters of Coil*

Model	Rated Voltage [V]	Power [W]	Part number	Frequ. [Hz]	Voltage Tolerance	Insulation Class	Protection Class (w/plug)	Wiring type
MQ-A03024-000001	24 AC	10,5W (50Hz) 8,5W (60Hz)	MDF-60001	50/60	-15% +10%	F	IP65	DIN Plug
MQ-A03111A-000001	110 to 120 AC	12W (50Hz) 10W (60Hz)	MDF-60002					
MQ-A0322G-000001	220 to 240 AC	12W (50Hz) 10W (60Hz)	MDF-60003					

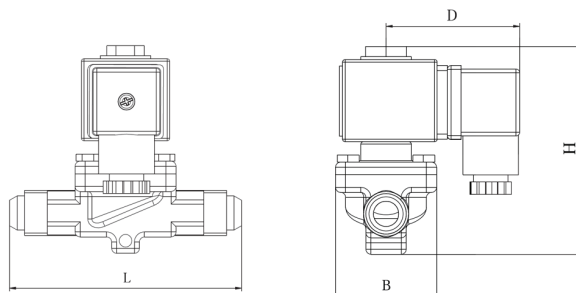
# MDF SERIES Solenoid Valve



## Technical Parameters of Valve Body

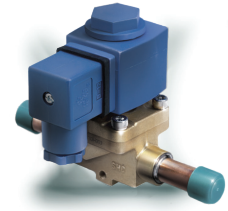
Solder Connection	Thread Connection	Normal position	Actuation	Kv [m <sup>3</sup> /h]	MOP [Mpa]	Max. OPD [Mpa]	Min. OPD [Mpa]
MDF-A03-2H	MDF-A03-2L	NC	Direct	0,16	4,5	3,1	0
MDF-A03-3H	MDF-A03-3L	NC	Direct	0,23	4,5	3,1	0
MDF-A03-6H	MDF-A03-6L	NC	Pilot	0,8	4,5	3,1	0,01
MDF-A03-10H	MDF-A03-10L	NC	Pilot	1,9	4,5	3,1	0,02
MDF-A03-15H	MDF-A03-15L	NC	Pilot	2,6	4,5	3,1	0,02
MDF-A03-20H	--	NC	Pilot	5	4,5	3,1	0,02
MDF-A03-22H	--	NC	Pilot	5,9	4,5	3,1	0,02
MDF-B01-25H	--	NC	Pilot (P)	8,6	4,5	3,1	0,03
MDF-B01-32H	--	NC	Pilot (P)	12,9	4,5	3,1	0,03
MDF-B01-40H	--	NC	Pilot (P)	21,5	4,5	3,1	0,03

## DIMENSIONS Valve Body Thread Connection

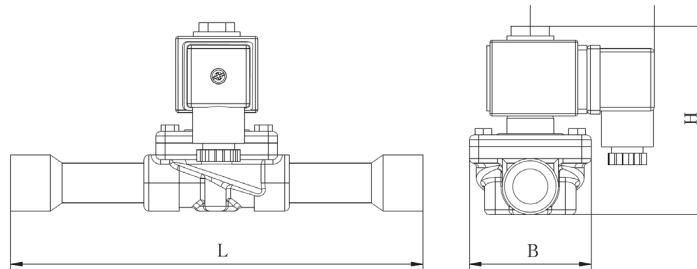


Model	Flare Connection	Part number	Dimensions [mm]			
	[inch]		L	B	D	H
MDF-A03-2L001	1/4	MDF-08039	59	30	53	82
MDF-A03-3L001	1/4	MDF-08040	59	30	53	82
MDF-A03-3L	3/8	MDF-08041	59	30	53	82
MDF-A03-6L001	3/8	MDF-08042	69	36	55	88
MDF-A03-6L	1/2	MDF-08043	69	36	55	88
MDF-A03-10L	1/2	MDF-08044	92	42	53	96
MDF-A03-10L001	5/8	MDF-08045	92	42	53	96
MDF-A03-15L001	5/8	MDF-08046	104	52	53	100
MDF-A03-15L	7/8	MDF-08047	104	52	53	100

# MDF SERIES Solenoid Valve

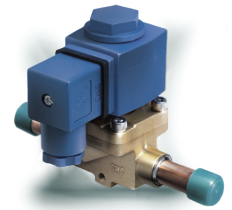


Valve Body Solder Connection

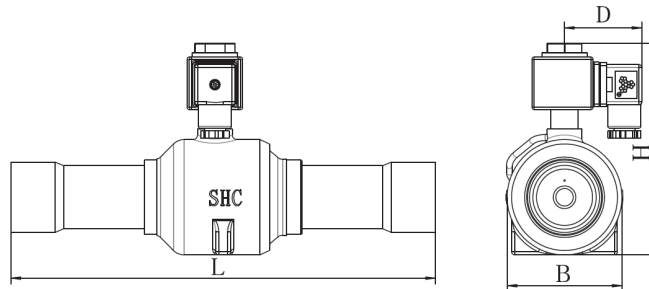


Model	Solder Connection	Part number	Dimensions [mm]			
	[inch]		L	B	D	H
MDF-A03-2H001	1/4	MDF-08001	102	30	55	82
MDF-A03-3H001	1/4	MDF-08002	102	30	55	82
MDF-A03-3H003	3/8	MDF-08003	102	30	55	82
MDF-A03-6H001	3/8	MDF-08004	111	36	55	88
MDF-A03-6H003	1/2	MDF-08005	111	36	55	88
MDF-A03-10H001	1/2	MDF-08006	127	42	55	95
MDF-A03-10H003	5/8	MDF-08007	127	42	55	95
MDF-A03-15H001	5/8	MDF-08008	176	52	55	100
MDF-A03-15H003	7/8	MDF-08009	176	52	55	100
MDF-A03-20H001	7/8	MDF-08010	191	52	55	117
MDF-A03-20H003	1 1/8	MDF-08011	191	52	55	117
MDF-A03-22H001	7/8	MDF-08012	191	60	55	117
MDF-A03-22H003	1 3/8	MDF-08013	191	60	55	117
MDF-B01-25H001	1-1/8	MDF-08014	256	54	53	116
MDF-B01-25H	1-3/8	MDF-08015	256	54	53	116
MDF-B01-32H001	1-3/8	MDF-08016	281	76	53	140
MDF-B01-32H	1-5/8	MDF-08017	281	76	53	140
MDF-B01-40H001	1-5/8	MDF-08018	281	76	53	140
MDF-B01-40H	2-1/8	MDF-08019	281	76	53	140

# MDF SERIES Solenoid Valve



Valve Body Solder Connection



Model	Solder Connection	Part number	Dimensions [mm]			
	[mm]		L	B	D	H
MDF-A03-2H003	6	MDF-08020	102	30	55	82
MDF-A03-3H005	6	MDF-08021	102	30	55	82
MDF-A03-3H007	10	MDF-08022	102	30	55	82
MDF-A03-6H005	10	MDF-08023	111	36	55	88
MDF-A03-6H007	12	MDF-08024	111	36	55	88
MDF-A03-10H005	12	MDF-08025	127	42	55	95
MDF-A03-10H007	16	MDF-08026	127	42	55	95
MDF-A03-15H005	16	MDF-08027	176	52	55	100
MDF-A03-15H007	22	MDF-08028	176	52	55	100
MDF-A03-20H005	22	MDF-08029	191	52	55	117
MDF-A03-20H007	28	MDF-08030	191	52	55	117
MDF-A03-22H	28	MDF-08031	191	60	55	117
MDF-A03-22H006	35	MDF-08032	191	60	55	117
MDF-B01-25H	28	MDF-08033	256	54	53	116
MDF-B01-25H	35	MDF-08034	256	54	53	116
MDF-B01-32H	35	MDF-08035	281	76	53	140
MDF-B01-32H	42	MDF-08036	281	76	53	140
MDF-B01-40H	42	MDF-08037	281	76	53	140
MDF-B01-40H	54	MDF-08038	281	76	53	140



# Solenoid Valve

FDF series solenoid valves are direct operated or pilot operated solenoid valves, mainly used in refrigerant control of various devices such as refrigerating and freezing systems, air conditioners and heat pumps.



## FEATURES

- COILS: LOW ENERGY CONSUMPTION, RELIABLE
- GREAT VALVE OPENING PERFORMANCE, HIGH MOPD

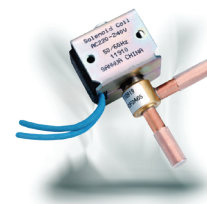
## GENERAL SPECIFICATIONS

- Refrigerants: R22, R134a, R407C, R404A, R410A etc
- Medium temperature: -30°C to +120°C
- Ambient temperature: -30°C to +50°C
- Relative humidity: below 95%
- Certifications: UL, TÜV

## TECHNICAL PARAMETERS OF VALVE BODY

Model	Part number	Normal position	Actuation	Seat mm	Kv [m <sup>3</sup> /h]	MOP [MPa]	Max. OPD [MPa]	Min. OPD [MPa]	Tube OD [mm]	Tube OD [inch]
FDF2A94	FDF-06001	NC	Direct	1,9	0,08	4,2	3,4	0	6,35	1/4
FDF2.5A06	FDF-06002	NC	Pilot	2,5	0,2	4,2	3,4	0,01	6,35	1/4
FDF3A08	FDF-06003	NC	Pilot	3	0,26	4,2	3,4	0,01	7,94	5/16
FDF4A10	FDF-06004	NC	Pilot	4	0,3	4,2	3,4	0,01	6,35	1/4
FDF6A58	FDF-06005	NC	Pilot	5,8	0,56	4,2	3,4	0,01	7,94	5/16
FDF8A21	FDF-06006	NC	Pilot	8	1,29	4,2	2,8	0,01	9,52	3/8
FDF11A05	FDF-06007	NC	Pilot	11	2,4	4,2	2,8	0,02	12,7	1/2
FDF13A07	FDF-06008	NC	Pilot	13	3,44	4,2	2,8	0,02	15,88	5/8

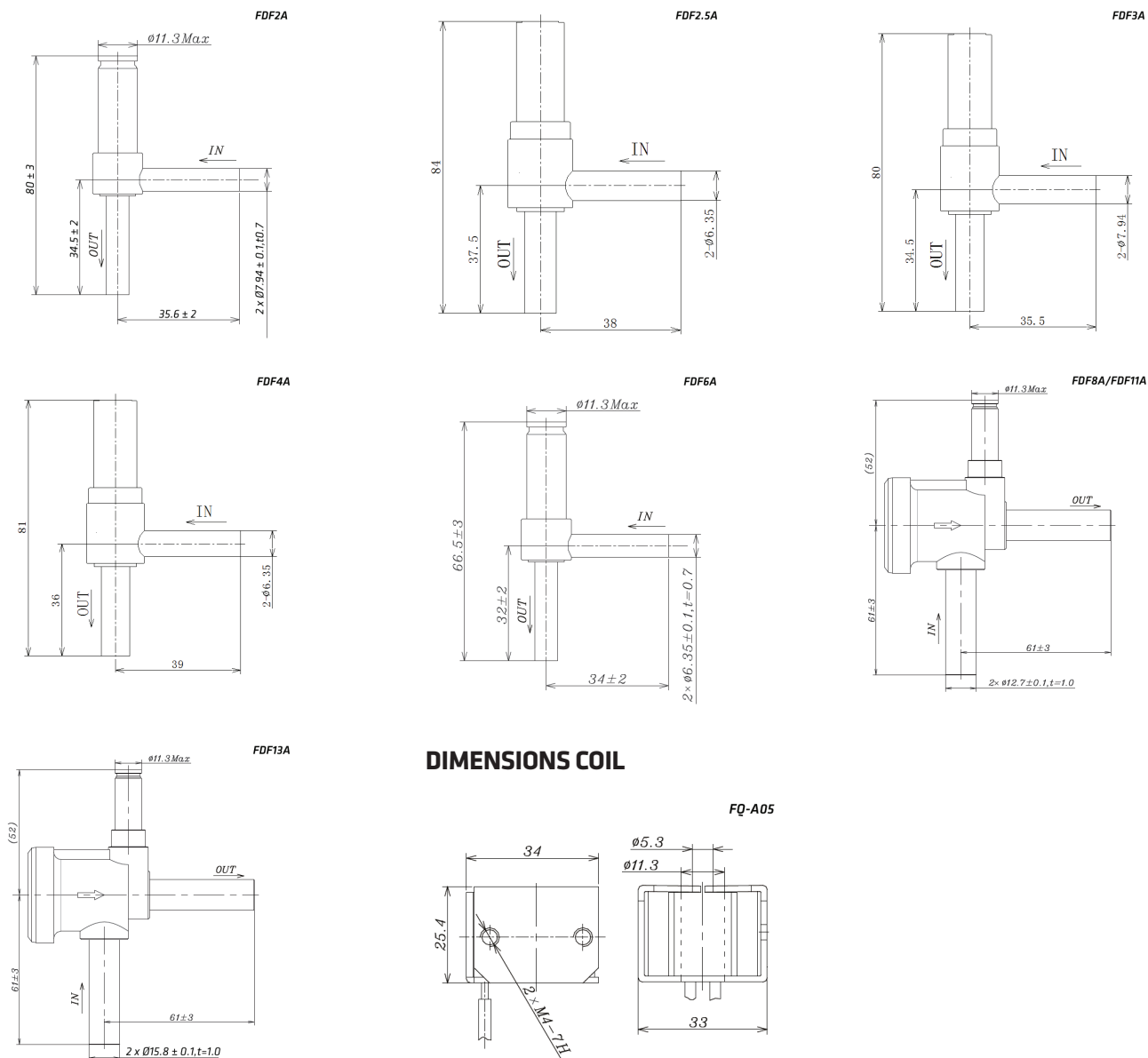
# FDF N/C SERIES Solenoid Valve



## TECNICAL PARAMETERS OF COIL

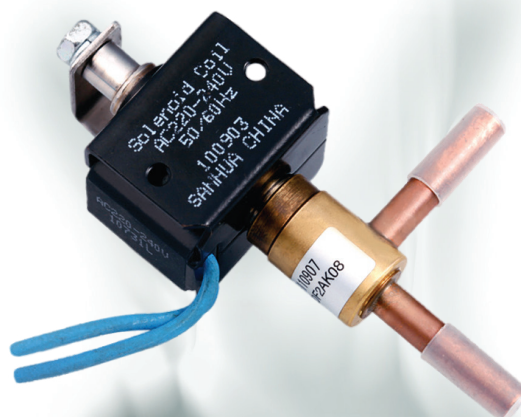
Model	Part number	Rated Voltage [V]	Power [W]	Frequ. [Hz]	Voltage Tolerance	Insulation Class	Wiring type
FQ-A05024-000709	FQ-A55001	24 AC	10,5W(50Hz) 8,5W (60Hz)	50/60	-15% +10%	B	flying leads
FQ-A05120-001098	FQ-A55002	110 to 120 AC	12W (50Hz) 10W (60Hz)				
FQ-A0522G-001044	FQ-A55003	220 to 240 AC	12W (50Hz) 10W (60Hz)				

## DIMENSIONS VALVE BODY



# Solenoid Valve

FDF2AK series solenoid valves are direct operated, normally open solenoid valves, mainly used in refrigerant control of various devices such as refrigerating and freezing systems, air conditioners and heat pumps.



## FEATURES

- SMALL VOLUME, LOW ENERGY CONSUMPTION
- EXCELLENT OPERATION PERFORMANCE

## GENERAL SPECIFICATIONS

- Refrigerants: R22, R134a, R407C, R404A, R410A etc.

- Medium temperature: -30°C to +120°C
- Ambient temperature: -30°C to +50°C
- Relative humidity: below 95%
- Certifications: UL, TÜV

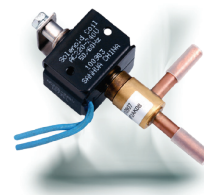
## TECHNICAL PARAMETERS OF VALVE BODY

Model	Part number	Normal position	Actuation	Seat mm	Kv [m <sup>3</sup> /h]	MOP [MPa]	Max. OPD [MPa]	Min. OPD [MPa]	Tube OD [mm]	Tube OD [inch]
FDF2AK01	FDF-06009	NO	Direct	1,8	0,05	4,2	2,1	0	6,35	1/4
FDF2AK08	FDF-06010	NO	Direct	1,9	0,08	4,2	1,5	0	6,35	1/4

## TECHNICAL PARAMETERS OF COIL

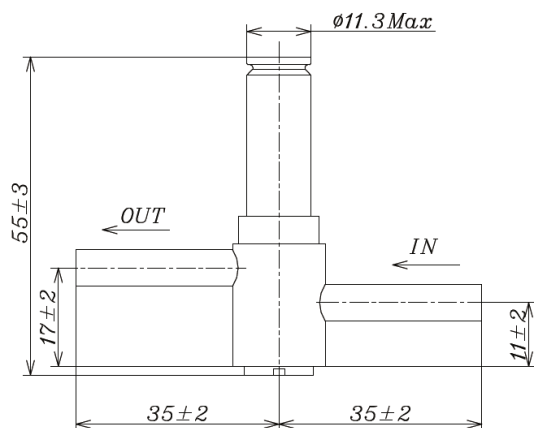
Model	Part number	Rated Voltage [V]	Power [W]	Used for	Frequ. [Hz]	Voltage Tolerance	Insulation Class	Wiring type
FQ-A05024-000709	FQ-A55001	24 AC	10,5W (50Hz) 8,5W (60Hz)	FDF2AK01	50/60	-15% +10%	B	flying leads
FQ-A05120-001098	FQ-A55002	110 to 120 AC	12W (50Hz) 10W (60Hz)					
FQ-A0522G-001044	FQ-A55003	220 to 240 AC	12W (50Hz) 10W (60Hz)	FDF2AK08				
FQ-A0522G-001066	FQ-A55007	220 to 240 AC	12W (50Hz) 10W (60Hz)					

# FDF N/O SERIES Solenoid Valve

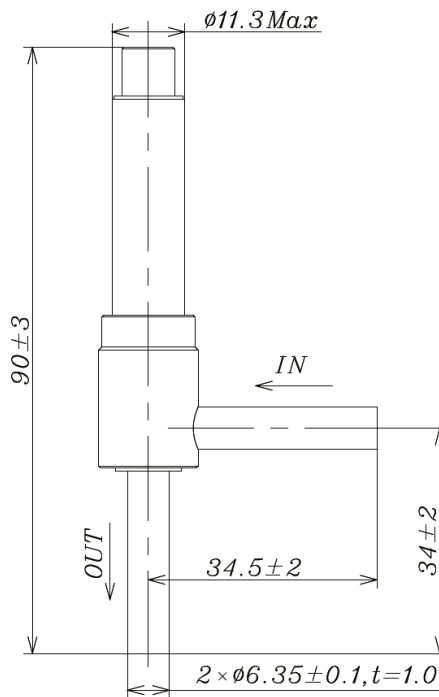


## DIMENSIONS VALVE BODY

FDF2AK01

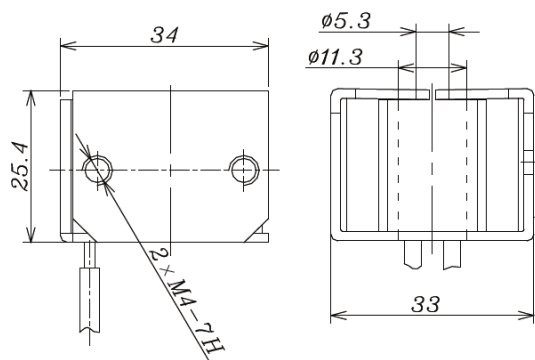


FDF2AK08

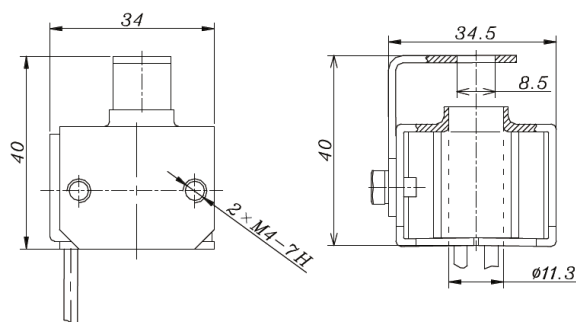


## DIMENSIONS COIL

FQ-A05 (For FDF2AK01)

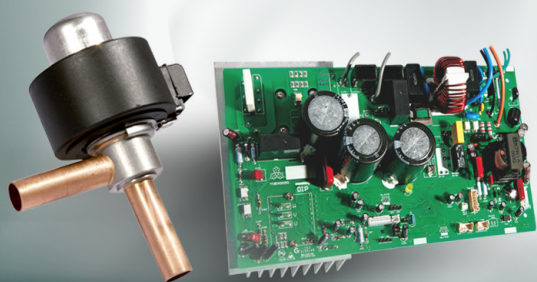


FQ-A05 (For FDF2AK08)



Every 4<sup>th</sup> car is equipped  
**with a SANHUA**  
expansion valve

YEARLY SANHUA SUPPLIES OVER  
40 MILLION THERMOSTATIC AND  
ELECTRONIC EXPANSION VALVES  
TO THE HVAC & AUTOMOTIVE  
INDUSTRIES WORLDWIDE



DISCOVER  
**WHY**

[www.sanhuaeurope.com](http://www.sanhuaeurope.com)

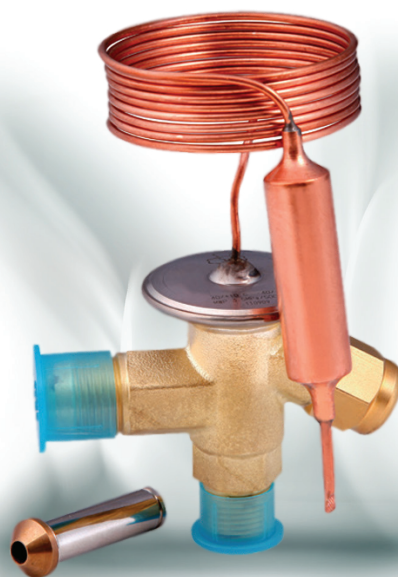
 **SANHUA**

CHILLING *IDEAS* WORLDWIDE

SANHUA INTERNATIONAL EUROPE  
[info@sanhuaeurope.com](mailto:info@sanhuaeurope.com)

# Thermostatic Expansion Valve

RFKA series thermostatic expansion valves are used to adjust mass flow of refrigerant into the evaporator while controlling the refrigerant's 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.



## FEATURES

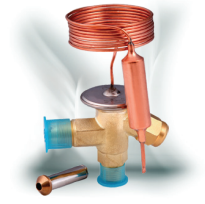
- EXCHANGEABLE VALVE ORIFICE, EASY TO STOCK HOLDING, CONVENIENT FOR CAPACITY MATCH AND REPAIR
- THERMAL BULB UTILIZES CROSS CHARGE TECHNOLOGY, PROVIDING EQUAL SUPERHEAT DEGREE OVER THE WHOLE EVAPORATION TEMPERATURE RANGE
- VALVES WITH MOP FUNCTION CAN BE PROVIDED TO PREVENT DAMAGES TO COMPRESSOR MOTOR CAUSED BY EXCESSIVE EVAPORATION PRESSURE
- WIDE EVAPORATION TEMPERATURE RANGE
- STABLE PERFORMANCE OF SUPERHEAT CONTROL

## GENERAL SPECIFICATIONS

- Applicable for all common HCFC and HFC refrigerants such as: R22, R134a, R404A, R407C, R410A, R507
- Min./max. ambient temperature: -35°C to +55°C
- TS min./max.: -40°C/+70°C or -60°C/+70°C
- PS: 3,5 MPa
- Relative humidity: 0 to 95%
- Certifications: PED

## TECHNICAL PARAMETERS

- RFKA series angle shape valve
- Inlet 3/8" flare connection
- Capillary tube length 1,5m
- Equalization port:
  - RFKA flare/flare type with 1/4" flare connection
  - RFKA flare/solder type with 6mm solde connection



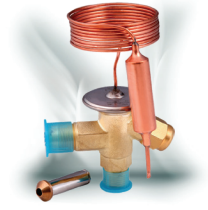
**TECHNICAL PARAMETERS**

Refrigerant	Model	Part number	Connection type	Temp. Range	MOP	Outlet size	
			In / Out / Ext.	[°C]	[°C]	flare	solder
						[inch]	[mm]
R22	RFKA01-4.8-22	RFK-24001	flare / flare	-40 to +10	--	1/2	
	RFKA01E-4.8-13	RFK-24002	flare / flare / flare	-40 to +10	--	1/2	
	RFKA01-4.8-26	RFK-24003	flare / solder	-40 to +10	--		12
	RFKA01E-4.8-06	RFK-24004	flare / solder / solder	-40 to +10	--		12
	RFKA01-4.8-07	RFK-24005	flare / solder	-40 to +10	--	1/2	
	RFKA01E-4.8-08	RFK-24006	flare / solder / solder	-40 to +10	--	1/2	
R407C	RFKA02-5.2-24	RFK-24007	flare / flare	-40 to +10	--	1/2	
	RFKA02E-5.2-20	RFK-24008	flare / flare / flare	-40 to +10	--	1/2	
	RFKA02-5.2-27	RFK-24009	flare / solder	-40 to +10	--		12
	RFKA02E-5.2-28	RFK-24010	flare / solder / solder	-40 to +10	--		12
	RFKA02-5.2-32	RFK-24011	flare / solder	-40 to +10	--	1/2	
	RFKA02E-5.2-18	RFK-24012	flare / solder / solder	-40 to +10	--	1/2	
R404A / R507	RFKA03-3.4-21	RFK-24013	flare / flare	-40 to +10	--	1/2	
	RFKA03E-3.4-15	RFK-24014	flare / flare / flare	-40 to +10	--	1/2	
	RFKA03-3.4-03	RFK-24015	flare / solder	-40 to +10	--		12
	RFKA03E-3.4-02	RFK-24016	flare / solder / solder	-40 to +10	--		12
	RFKA03-3.4--09	RFK-24017	flare / solder	-40 to +10	--	1/2	
	RFKA03E-3.4-10	RFK-24018	flare / solder / solder	-40 to +10	--	1/2	
R134a	RFKA04-4.0-23	RFK-24019	flare / flare	-40 to +10	--	1/2	
	RFKA04E-4.0-19	RFK-24020	flare / flare / flare	-40 to +10	--	1/2	
	RFKA04-4.0-29	RFK-24021	flare / solder	-40 to +10	--		12
	RFKA04E-4.0-17	RFK-24022	flare / solder / solder	-40 to +10	--		12
	RFKA04-4.0-30	RFK-24023	flare / solder	-40 to +10	--	1/2	
	RFKA04E-4.0-31	RFK-24024	flare / solder / solder	-40 to +10	--	1/2	

**Note:** Valves with MOP and with different range of t<sub>lev</sub> for all refrigerants on request.

# RFKA SERIES

## Thermostatic Expansion Valve

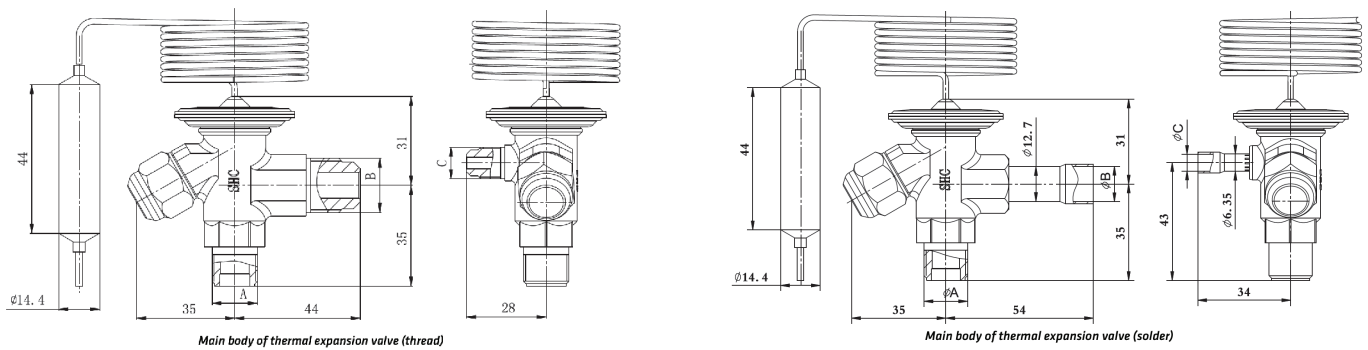


### NOMINAL CAPACITY

No.	Nominal Capacity in kW				Valve orifice Model	Valve orifice Part number
	R22	R407C	R404A / R507C	R134a		
0X	0,5	0,5	0,35	0,33	RFKA-023-0X	RFK-24036
0	1,1	1,1	0,7	0,68	RFKA-023-00	RFK-24037
1	2,5	2,7	1,7	1,6	RFKA-023-01	RFK-24038
2	3,5	3,9	2,4	2,2	RFKA-023-02	RFK-24039
3	5,6	6,3	3,9	3,5	RFKA-023-03	RFK-24040
4	8,1	8,8	5,6	4,9	RFKA-023-04	RFK-24041
5	10,6	11,3	7,4	6,7	RFKA-023-05	RFK-24042
6	16,9	18,3	12	10,6	RFKA-023-06	RFK-24043

**Note:** Nominal capacity at  $t_{ev} = 5^{\circ}\text{C}$ ,  $t_{lc} = 38^{\circ}\text{C}$ , operating superheat 4K and subcooling 4K.

### DIMENSIONS



### PORT CONNECTIONS

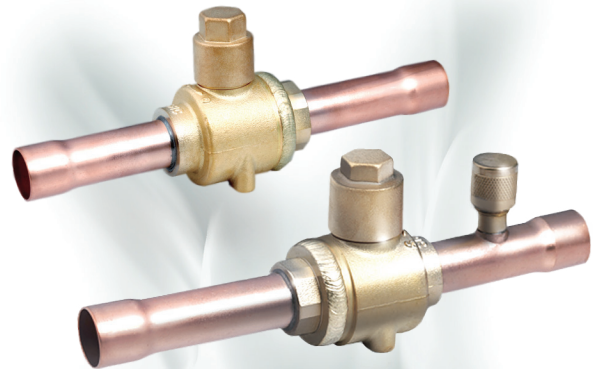
Inlet A		Outlet B		External Equalization C		
Thread	Thread	Solder ODF		Thread	Solder ODF	
[inch]	[inch]	[mm]	[inch]	[inch]	[mm]	[inch]
3/8	1/2	12	1/2	1/4	6	1/4

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



# Ball Valve

The ball valve of series SBV is applicable for commercial air conditioner, freezing or deep-freezing equipment or other refrigeration circuits in order to open and to shut off inner flow path by operating the valve stem. It can also be used as service valve for vacuum pumping and refrigerant injection etc.

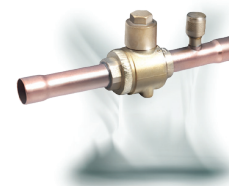


## FEATURES

- STRAIGHTWAY TYPE, FULL PORT, LOW PRESSURE DROP , COST-EFFECTIVE
- OPTIONAL WITH REINFORCED SPRING
- VALVE BODY AND VALVE SEAT WITH WELDED STRUCTURE, WITH HIGH PRODUCT RELIABILITY
- ROTATE 1/4 CIRCLES FROM FULL-OPEN TO FULL-CLOSE, EASY TO OPERATE
- BIDIRECTIONAL FLOW
- ROTATION STOP AVAILABLE FOR FULL-OPEN AND FULL-CLOSE OF THE VALVE
- SPECIAL SEALING MATERIALS TO PREVENT INTERNAL LEAKAGE

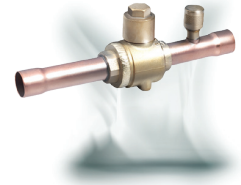
## GENERAL SPECIFICATIONS

- Applicable for all common HCFC and HFC refrigerants such as: R22, R134a, R404A, R407C, R410A, R507
- Min./max. ambient temperature: -30°C to +55°C
- TS min./max.: -40°C / +120°C
- PS: 4,83 MPa
- Certifications: PED & UL



**GENERAL CHARACTERISTICS**

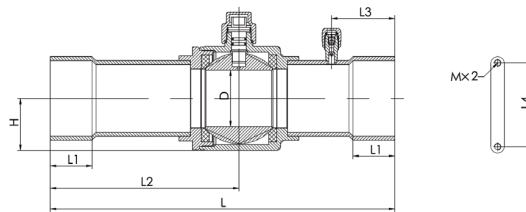
Model	Part Number	Connections		Kv [m3/h]	PED category
		ODF			
		Ø [in]	Ø [mm]		
<b>Without access fitting</b>					
SBV(M)-A2YHSY-2-S	SBV-13001	-	6	1,66	ART 3.3
SBV(M)-A2YHSY-1-S	SBV-13002	1/4	-	1,76	ART 3.3
SBV(M)-A3YHSY-1-S	SBV-13003	3/8	10	4,35	ART 3.3
SBV(M)-A4YHSY-2-S	SBV-13004	-	12	6,73	ART 3.3
SBV(M)-A4YHSY-1-S	SBV-13005	1/2	-	7,74	ART 3.3
SBV(M)-A5YHSY-2-S	SBV-13006	-	15	9,76	ART 3.3
SBV(M)-A5YHSY-1-S	SBV-13007	5/8	16	9,02	ART 3.3
SBV(M)-A6YHSY-2-S	SBV-13008	-	18	16,2	ART 3.3
SBV(M)-A6YHSY-1-S	SBV-13009	3/4	-	14,6	ART 3.3
SBV(M)-A7YHSY-1-S	SBV-13010	7/8	22	18,9	ART 3.3
SBV(M)-A9YHSY-2-S	SBV-13011	-	28	32,6	I
SBV(M)-A9YHSY-1-S	SBV-13012	1 1/8	-	34,9	I
SBV(M)-A11YHSY-1-S	SBV-13013	1 3/8	-	54,0	I
SBV(M)-A13YHSY-1-S	SBV-13014	1 5/8	42	77,6	I
SBV(M)-A17YHSY-1-S	SBV-13015	2 1/8	54	120,3	I
SBV(M)-A17YHSY-2-S	SBV-13016	-	64	111,7	I
SBV(M)-A21YHSY-2-S	SBV-13017	2 5/8	-	295,7	I
SBV(M)-A25YHSY-2-S	SBV-13018	3 1/8	80	361,9	I
<b>With access fitting</b>					
SBV(M)-JA2YHSY-2-S	SBV-13019	-	6	1,66	ART 3.3
SBV(M)-JA2YHSY-1-S	SBV-13020	1/4	-	1,76	ART 3.3
SBV(M)-JA3YHSY-1-S	SBV-13021	3/8	10	4,35	ART 3.3
SBV(M)-JA4YHSY-2-S	SBV-13022	-	12	6,73	ART 3.3
SBV(M)-JA4YHSY-1-S	SBV-13023	1/2	-	7,74	ART 3.3
SBV(M)-JA5YHSY-2-S	SBV-13024	-	15	9,76	ART 3.3
SBV(M)-JA5YHSY-1-S	SBV-13025	5/8	16	9,02	ART 3.3
SBV(M)-JA6YHSY-2-S	SBV-13026	-	18	16,2	ART 3.3
SBV(M)-JA6YHSY-1-S	SBV-13027	3/4	-	14,6	ART 3.3
SBV(M)-JA7YHSY-1-S	SBV-13028	7/8	22	18,9	ART 3.3
SBV(M)-JA9YHSY-2-S	SBV-13029	-	28	32,6	I
SBV(M)-JA9YHSY-1-S	SBV-13030	1 1/8	-	34,9	I
SBV(M)-JA11YHSY-1-S	SBV-13031	1 3/8	-	54,0	I
SBV(M)-JA13YHSY-1-S	SBV-13032	1 5/8	42	77,6	I



**GENERAL CHARACTERISTICS**

Model	Part Number	Connections		Kv [m3/h]	PED category
		ODF			
		Ø [in]	Ø [mm]		
<b>With access fitting</b>					
SBV(M)-JA17YHSY-1-S	SBV-13033	2 1/8	54	120,3	I
SBV(M)-JA17YHSY-2-S	SBV-13034	-	64	111,7	I
SBV(M)-JA21YHSY-2-S	SBV-13035	2 5/8	-	295,7	I
SBV(M)-JA25YHSY-2-S	SBV-13036	3 1/8	80	361,9	I

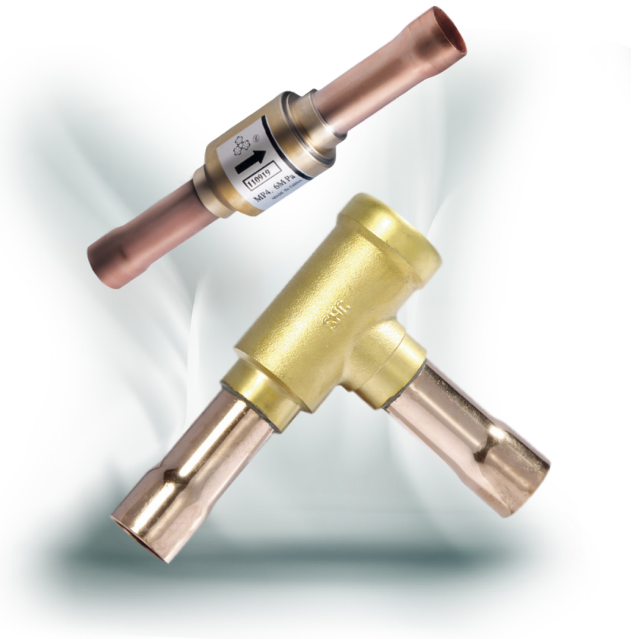
**DIMENSIONS**



Part number		L	L1	L2	L3	L4	D	H	M	Weight
Without access fitting	With access fitting	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
SBV-13001	SBV-13019	132	8	68	31	22	14	16	M4 x 0,7	0,28
SBV-13002	SBV-13020	132	8	68	31	22	14	16	M4 x 0,7	0,28
SBV-13003	SBV-13021	132	8	68	31	22	14	16	M4 x 0,7	0,29
SBV-13004	SBV-13022	160	10	85	31	22	14	16	M4 x 0,7	0,30
SBV-13005	SBV-13023	160	10	85	31	22	14	16	M4 x 0,7	0,30
SBV-13006	SBV-13024	160	12	85	31	22	14	16	M4 x 0,7	0,30
SBV-13007	SBV-13025	160	12	85	31	22	14	16	M4 x 0,7	0,30
SBV-13008	SBV-13026	185	14	99	37	30	19	20	M4 x 0,7	0,51
SBV-13009	SBV-13027	185	14	99	37	30	19	20	M4 x 0,7	0,51
SBV-13010	SBV-13028	185	17	99	37	30	19	20	M4 x 0,7	0,52
SBV-13011	SBV-13029	208	20	112	44	38	25	25	M4 x 0,7	0,73
SBV-13012	SBV-13030	208	20	112	44	38	25	25	M4 x 0,7	0,73
SBV-13013	SBV-13031	251	25	136	44	48	32	31	M6 x 1,0	1,42
SBV-13014	SBV-13032	281	29	151	56	55	38	35	M6 x 1,0	1,90
SBV-13015	SBV-13033	305	34	167	56	74	50	46	M6 x 1,0	3,74
SBV-13016	SBV-13034	305	34	167	70	74	50	46	M6 x 1,0	3,79
SBV-13017	SBV-13035	305	37	167	56	74	60	56	M6 x 1,0	6,08
SBV-13018	SBV-13036	378	42	186,2	80	90	70	63	M6 x 1,0	8,81

# Check Valve Piston Type

Piston type check valves are designed for installation in commercial refrigerating systems and in residential or industrial air conditioning plants. They are used to control the unidirectional flow of refrigerant so as to prevent backflow.

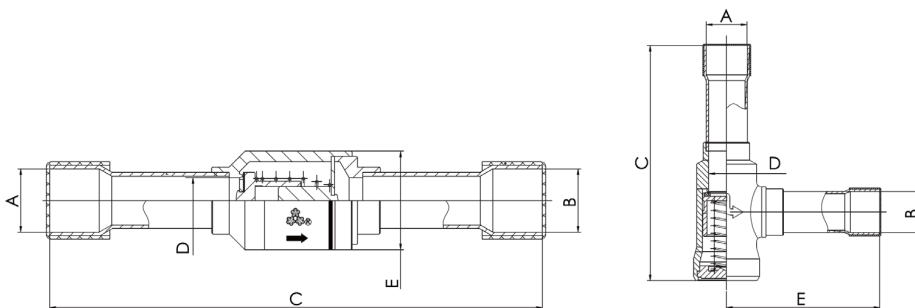


## FEATURES

- THIS VALVE CAN ENSURE THE ONLY CORRECT FLOW DIRECTION
- EQUIPPED WITH DAMPING SPRING TO FREELY INSTALL THE VALVE AT POSITIONS WITH PRESSURE PULSE
- AVAILABLE WITH TWO TYPES: STRAIGHTWAY VALVE AND L-SHAPE VALVE, EASY TO CONNECT
- SPECIAL VERSION OF CHECK VALVES EQUIPPED WITH REINFORCED SPRING, APPLICABLE FOR EXHAUST PIPES IN SHUNT CONNECTION WITH COMPRESSORS (YCVSH SERIES)

## GENERAL SPECIFICATIONS

- Applicable refrigerant: R22, R407C, R410A etc.
- Minimum/Maximum refrigerant allowed temperature (TS): -50°C to 140°C
- Maximum working pressure (PS): 4.6MPa (46 bar)



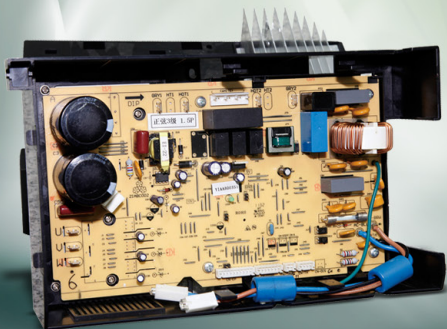


**GENERAL CHARACTERISTICS**

Model	Part Number	Type	Connections		Kv	Min. Open. Differ. Press.	Dimensions			PED category
			Ø ODF				D	C	E	
			[in]	[mm]	[m3/h]	[kPa]	[mm]	[mm]	[mm]	
YCVS5-11GSHC-1	YCV-15001	straight-way	-	6	0,56	3	5	90	18	3,3
YCVS5-22GSHC-1	YCV-15002	straight-way	1/4	-	0,56	3	5	90	18	3,3
YCVS8-33GSHC-1	YCV-15007	straight-way	3/8	-	1,43	3	8	110	18	3,3
YCVSH8-33GSHC-1	YCV-15008	straight-way	3/8	-	1,43	10	8	110	18	3,3
YCVS8-33GSHC-2	YCV-15009	straight-way	-	10	1,43	3	8	110	18	3,3
YCVSH8-33GSHC-2	YCV-15010	straight-way	-	10	1,43	10	8	110	18	3,3
YCVS10-33GSHC-1	YCV-15015	straight-way	-	12	2,1	5	10	130	22	3,3
YCVSH10-33GSHC-1	YCV-15016	straight-way	-	12	2,1	15	10	130	22	3,3
YCVS10-44GSHC-1	YCV-15017	straight-way	1/2	-	2,1	5	10	130	22	3,3
YCVSH10-44GSHC-1	YCV-15018	straight-way	1/2	-	2,1	15	10	130	22	3,3
YCVS13-55GSHC-1	YCV-15021	straight-way	5/8	16	3,9	5	13	140	28	3,3
YCVSH13-55GSHC-1	YCV-15022	straight-way	5/8	16	3,9	15	13	140	28	3,3
YCVS17-55GSHC-1	YCV-15027	straight-way	-	18	5,52	3	17	165	34	3,3
YCVSH17-55GSHC-1	YCV-15028	straight-way	-	18	5,52	10	17	165	34	3,3
YCVS17-66GSHC-1	YCV-15029	straight-way	3/4	-	5,52	3	17	165	34	3,3
YCVSH17-66GSHC-1	YCV-15030	straight-way	3/4	-	5,52	10	17	165	34	3,3
YCVS20-77GSHC-1	YCV-15033	L-shape	7/8	22	13,2	4	20	132	87	3,3
YCVSH20-77GSHC-1	YCV-15034	L-shape	7/8	22	13,2	15	20	132	87	3,3
YCVS26-88GSHC-1	YCV-15039	L-shape	-	28	19,02	3	26	196	123	3,3
YCVSH26-88GSHC-1	YCV-15040	L-shape	-	28	19,02	10	26	196	123	3,3
YCVS26-99GSHC-1	YCV-15041	L-shape	1/8	-	19,02	3	26	196	123	3,3
YCVSH26-99GSHC-1	YCV-15042	L-shape	1/8	-	19,02	10	26	196	123	3,3
YCVS31-BBGSHC-1	YCV-15045	L-shape	1/8	35	29,1	3	31	196	123	I
YCVSH31-BBGSHC-1	YCV-15046	L-shape	1/8	35	29,1	10	31	196	123	I
YCVS31-DDGSHC-1	YCV-15047	L-shape	1/8	-	29,1	3	31	196	123	I
YCVSH31-DDGSHC-1	YCV-15048	L-shape	1/8	-	29,1	10	31	196	123	I
YCVS31-DDGSHC-2	YCV-15049	L-shape	-	42	29,1	3	31	196	123	I
YCVSH31-DDGSHC-2	YCV-15050	L-shape	-	42	29,1	10	31	196	123	I

*Every second A/C system  
in the world is equipped with*  
**Inverter Technology**

**SANHUA IS PROVIDING INVERTER  
CONTROLLER SOLUTIONS TO  
ITS CUSTOMERS HELPING THEM TO  
IMPROVE SYSTEM EFFICIENCY  
BY UP TO 30%**



**DISCOVER  
WHY**

[www.sanhuaeurope.com](http://www.sanhuaeurope.com)

 **SANHUA**

**CHILLING IDEAS WORLDWIDE**

**SANHUA INTERNATIONAL EUROPE**  
[info@sanhuaeurope.com](mailto:info@sanhuaeurope.com)

# Sight Glass

Sight glasses are installed after the filter drier in liquid line of refrigerating systems, in order to observe property changes of the refrigerant (liquid/vapour) and to indicate the moisture level by colours.



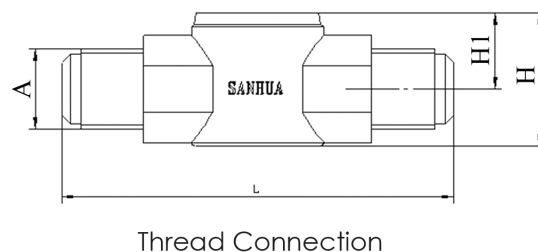
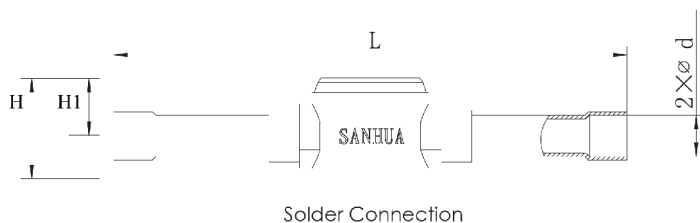
## FEATURES

- HIGH PRECISION COLOUR INDICATOR
- INDICATOR PASTED CLOSELY TO THE GLASS TO PREVENT SURFACE CONTAMINATION
- SOLID AND CORROSION RESISTANT BRASS MATERIAL
- GOOD READABILITY DUE TO HIGH CLEAR SIGHT GLASS OF WIDE ANGLE
- SEALING OF LOW CREEP PTFE TO ENSURE LEAKAGE FREE PERFORMANCE

## GENERAL SPECIFICATIONS

- Applicable for all common HCFC and HFC refrigerants such as: R22, R134a, R404A, R407C, R410A, R507

- Min./max. ambient temperature: -50°C to +80
- TS min./max.: -40°C / +80°
- PS: 4,2 MPa
- Certifications: PED





**CHARACTERISTICS**

*Version with solder connections*

Model	Connection Type	Connections		Dimensions & Weight				PED category	Part number
		ODF		L	H	H1	Weight		
		Ø [in]	Ø [mm]	[mm]	[mm]	[mm]	[g]		
SYJ-A00061-000	Solder	-	6	101	24	14	100	Article 3.3	SYJ-42001
SYJ-A00040-000	Solder	1/4	-	101	24	14	100	Article 3.3	SYJ-42002
SYJ-A00060-000	Solder	3/8	-	119	24	14	100	Article 3.3	SYJ-42003
SYJ-A00101-000	Solder	-	10	119	24	14	100	Article 3.3	SYJ-42004
SYJ-A00080-000	Solder	1/2	-	146	30	17	200	Article 3.3	SYJ-42005
SYJ-A00121-000	Solder	-	12	146	30	17	200	Article 3.3	SYJ-42006
SYJ-A00100-000	Solder	5/8	16	146	30	17	200	Article 3.3	SYJ-42007
SYJ-A00120-000	Solder	3/4	-	173	37	21	300	Article 3.3	SYJ-42008
SYJ-A00140-000	Solder	7/8	22	173	37	21	300	Article 3.3	SYJ-42009

*Version with thread connections*

Model	Connection Type	Connections		Dimensions & Weight				PED category	Part number
		UNF	L	H	H1	Weight			
		[in]	[mm]	[mm]	[mm]	[g]			
SYJ-A02042-001	Thread	1/4	67	24	14	100	Article 3.3	SYJ-42010	
SYJ-A02062-001	Thread	3/8	82	24	14	200	Article 3.3	SYJ-42011	
SYJ-A02082-001	Thread	1/2	88	30	17	300	Article 3.3	SYJ-42012	
SYJ-A02102-001	Thread	5/8	104	30	17	400	Article 3.3	SYJ-42013	
SYJ-A02122-001	Thread	3/4	110	37	21	400	Article 3.3	SYJ-42014	

*Moisture indication limits*

Moisture content: PPM						
Refrigerant	25°C			40°C		
	Green/Dry	Middle color	Yellow/Wet	Green/Dry	Middle color	Yellow/Wet
R22	<30	30~90	>90	<45	45~130	>130
R134a	<50	50~200	>200	<80	80~225	>225
R404A	<15	15~90	>90	<30	30~140	>140
R507	<15	15~90	>90	<30	30~140	>140
R407C	<120	120~280	>280			
R410A	<75	75~150	>150			



# Brass Service Valve

Brass service valves of series SSV are applicable for split air conditioners to connect indoor unit and outdoor unit. It can also be used in other cooling or refrigeration systems. The inner path of the valve can be closed by operating the valve stem. The 3way version (with charge port) can be used as service valve for vacuum pumping and refrigerant injection.

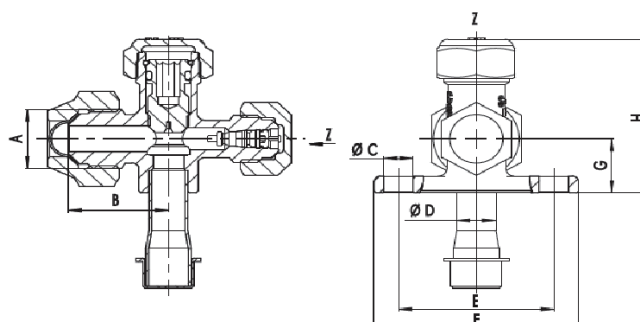


## FEATURES

- AVAILABLE WITHOUT AND WITH CHARGE PORT
- COST EFFICIENT SOLUTION
- RELIABLE AND ROBUST DESIGN

## GENERAL SPECIFICATIONS

- Applicable for all common HCFC and HFC refrigerants such as: R134a, R404A, R407C, R410A, R507
- TS min./max.: -30°C / +120°C
- PS: 4,2 MPa

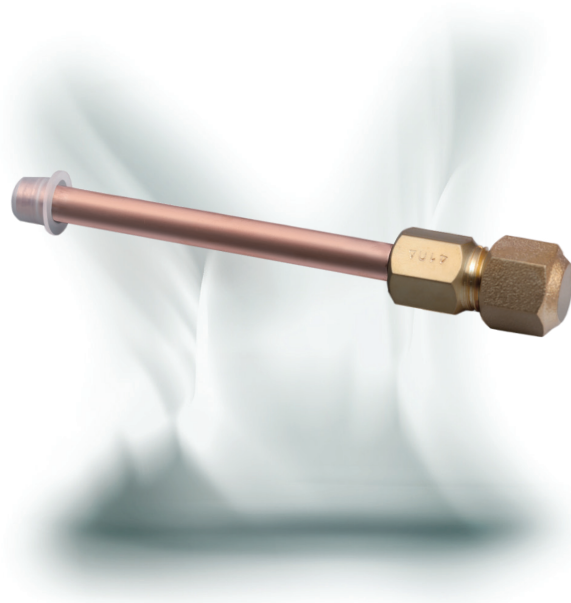


## DIMENSIONS

Model	Part number	A	B	C	D		E	F	G	H	Cooling capacity kW	Charge port Y / N
		in	mm	mm	in	mm	mm	mm	mm	mm		
SSV-A2GSHC-23	SSV14001	7/16 -20UNF	23	7,2	1/4	6,35	38	50	14	36	0,7 - 1,5	N
SSV-JA3GSHC-20	SSV14002	5/8 -18UNF	24.5	7,2	3/8	9,52	38	50	14.5	41	0,7 - 3,7	Y
SSV-JA4GSHC-19	SSV14003	3/4 -16UNF	28	7,2	1/2	12,7	38	50	16	44	1,1 - 7,5	Y
SSV-JA5GSHC-15	SSV14004	7/8 -14UNF	34	7,2	5/8	15,88	38	50	17	47	1,5 - 8,8	Y
SSV-JA6-GSHC-13	SSV14005	17/16 -14UNS	40	7,2	3/4	19,05	44	56	23	61	3,7 - 5,9	Y

# Charge Valve

Charge valves are mainly installed in air conditioning and refrigeration systems. They are used as service valve for circuit evacuation to vacuum and for refrigerant injection.



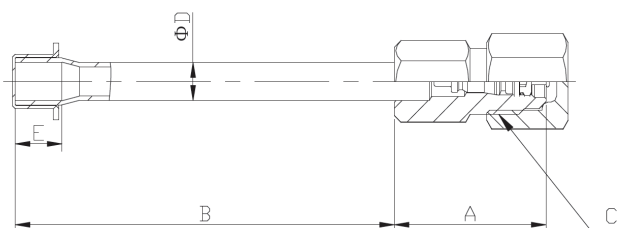
## FEATURES

- SIMPLE STRUCTURE, CONVENIENT TO USE
- PREVENT REFRIGERANT LOSS THROUGH INTEGRATED SHRADER VALVE

## GENERAL SPEC.

- Applicable for all common HCFC and HFC refrigerants such as: R22, R134a, R404A, R407C, R410A, R507
- TS min./max.: -30°C / +80°C
- PS: 4,2 MPa
- Certifications: PED

## DIMENSIONS



Model	Part number	A	B	C	Refrigerant	D		E
		[mm]	[mm]	[in]		[mm]	[in]	[mm]
TCJ-2HMSZ-1	TCJ-14001	26	65	7/16-20UNF	R22	6,35	1/4	8
TCJ-2GMS-1	TCJ-14002	26	65	1/2-20UNF	R407C/R410A	6,35	1/4	8

***SANHUA is the world's largest  
producer of  
Micro-Channel Heat Exchangers  
for Stationary HVAC&R application***

**SANHUA DELIVERS  
OVER 1,000,000 MCHE  
CONDENSERS (CO & HP)  
AND EVAPORATORS HELPING  
TO IMPROVE SYSTEM  
EFFICIENCY BY UP TO 30%**



**DISCOVER  
WHY**

[www.sanhuaeurope.com](http://www.sanhuaeurope.com)



# Uni-Flow Filter Driers

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



## FEATURES

- HIGH EFFICIENT IN MOISTURE ABSORPTION, FILTERING IMPURITY, ACID, PAINT REMAINS AND MUD REMOVAL
- HYBRID DESICCANT
- DURABLE AND SOLID FILTER CORES
- FILTERING FINENESS: 20µm
- CORROSION RESISTANT PAINTING CAN SURVIVE SALT SPRAY TEST OF 500 HOURS.
- CONNECTION TYPE: FLARE OR SOLDER

## GENERAL SPECIFICATIONS

- Applicable for all common HCFC, HFC and CFC refrigerants such as: R22, R134a, R404A, R407C, R410A, R507A ...
- Min./max. ambient temperature: -30°C to +55°C
- TS min./max.: -30°C / +120°C
- PS: 4,83 MPa
- Installation position:
  - Flow direction corresponds to the arrow
  - Preferably installed in liquid line
- Certifications: UL/CSA and PED declaration

## TECHNICAL PARAMETERS *Desiccant Selection Table*

	Medium Type	80% 3A desiccant and 20% active alumina	100% 3A desiccant
Refrigerant <sup>1</sup>	HFC	Applicable	Applicable
	HCFC	Applicable	Applicable
	CFC	Applicable	Not Applicable
	HC	Applicable	Applicable
Oil <sup>2</sup>	Mineral oil or AB	Applicable	Applicable
	Pure POE or PAG	Applicable	Applicable
	POE or PAG with additive	Not Applicable	Applicable

**Note:** 1) For CFC system, usage of core with alumina is recommended as a strong capability to absorb acid may be needed.  
 2) When the systems use oil with additive, it is not recommended to use a core with alumina.

# DTG/L SERIES

## Uni-Flow Filter Driers



### Model Designation Legend

1	<b>Product Code</b>	<b>Filter Drier Series</b>		
	DTG	Indicates unidirectional filter drier		
2	<b>Filter Core</b>	<b>Structure and Material</b>		
	A	Loos core, 100%3Å desiccant		
	B	Solid core, 100%3Å desiccant		
	E	Loos core, 80% 3Å desiccant and 20% active alumina		
	F	Solid core, 80% 3Å desiccant and 20% active alumina		
3	<b>Internal Volume</b>	<b>Expressed in [ inch<sup>3</sup> ]</b>	<b>Expressed in [ cm<sup>3</sup> ]</b>	
	03	3	49	
	05	5	82	
	08	8	131	
	16	16	262	
	30	30	492	
	41	41	672	
	75	75	1229	
4	<b>Connection Size</b>	<b>Pos. 5 shows "0": Solder [inch]</b>	<b>Pos. 5 shows "4": SAE Flare [inch]</b>	
	02	1/4	1/4	
	25	5/16	-	
	03	3/8	3/8	
	04	1/2	1/2	
	05	5/8	5/8	
	06	3/4	3/4	
	07	7/8	7/8	
	09	1 1/8	-	
		<b>Connection Size</b>	<b>Pos. 5 shows "1": Solder [mm]</b>	
		06	6	
		08	8	
		10	10	
		12	12	
		16	16	
	22	22		
	28	28		
5	<b>Pipe Connection</b>	<b>Type</b>		
	0	Solder with inch connections		
	1	Solder with metric connections		
	4	SAE flare connections		
6	<b>Version Number</b>	<b>Description</b>		
	001	Standard product		



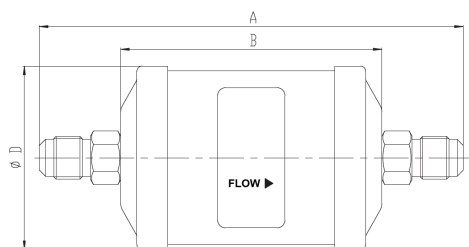
**MODEL DESIGNATION EXAMPLE**

Position Number						According to Model Designation Legend
1	2	3	4	5	6	
<b>DTG</b>	B	03	06	1	001	Unidirectional filter drier
DTG	<b>B</b>	03	06	1	001	Solid filter core with 100% 3Å desiccant
DTG	B	<b>03</b>	06	1	001	3 inch <sup>3</sup> internal volume
DTG	B	03	<b>06</b>	1	001	When Pos. 5 is "1": connection size 6mm
DTG	B	03	06	<b>1</b>	001	Solder connection metric
DTG	B	03	06	1	<b>001</b>	Standard product

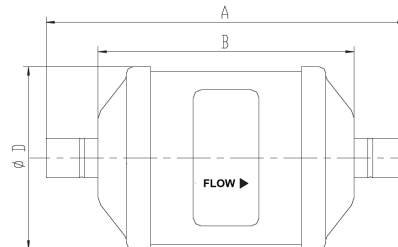
**GENERAL CHARACTERISTICS OF DTG-B FILTER - FLARE CONNECTION**

Model	Part Number	Type of Connection	Connection	Dimensions & Weight				PED Category
			SAE Flare	ØD	B	A	Weight	
			[inch]	[mm]	[mm]	[mm]	[g]	
DTG-B03 024-001	DTG-30001	flare	1/4	45	65,0	112,0	160	3,3
DTG-B03 034-001	DTG-30002	flare	3/8	45	65,0	125,2	160	3,3
DTG-B05 024-001	DTG-30003	flare	1/4	68	76,2	123,2	450	3,3
DTG-B05 034-001	DTG-30004	flare	3/8	68	76,2	136,4	450	3,3
DTG-B08 024-001	DTG-30005	flare	1/4	68	96,8	143,8	550	3,3
DTG-B08 034-001	DTG-30006	flare	3/8	68	96,8	157,0	550	3,3
DTG-B08 044-001	DTG-30007	flare	1/2	68	96,8	165,0	550	3,3
DTG-B16 024-001	DTG-30008	flare	1/4	68	120,6	167,6	660	3,3
DTG-B16 034-001	DTG-30009	flare	3/8	68	120,6	180,8	660	3,3
DTG-B16 044-001	DTG-30010	flare	1/2	68	120,6	188,8	660	3,3
DTG-B16 054-001	DTG-30011	flare	5/8	68	120,6	198,0	660	3,3
DTG-B16 064-001	DTG-30012	flare	3/4	68	120,6	198,0	660	3,3
DTG-B30 034-001	DTG-30013	flare	3/8	80	190,5	250,7	1550	3,3
DTG-B30 044-001	DTG-30014	flare	1/2	80	190,5	258,7	1550	3,3
DTG-B30 054-001	DTG-30015	flare	5/8	80	190,5	268,0	1550	3,3
DTG-B30 064-001	DTG-30016	flare	3/4	80	190,5	268,0	1550	3,3
DTG-B30 074-001	DTG-30017	flare	7/8	80	190,5	280,5	1550	3,3
DTG-B41 044-001	DTG-30018	flare	1/2	94	194,0	262,2	2050	3,3
DTG-B41 054-001	DTG-30019	flare	5/8	94	194,0	271,4	2050	3,3

# DTG/L SERIES Uni-Flow Filter Driers



Flare Connection



Solder Connection

## GENERAL CHARACTERISTICS OF DTG-B FILTER - SOLDER CONNECTION

Model [ inch ]	Part Number [ inch ]	Model [ mm ]	Part Number [ mm ]	Type of connection	Nominal Volumen [cm <sup>3</sup> ]	Connection		Dimensions & Weight				PED category
						Solder		DØ [mm]	B [mm]	A [mm]	Weight [g]	
						[inch]	[mm]					
DTG-B03 020-001	DTG-30020	DTG-B03 061-001	DTG-30053	solder	49	1/4	6	45	65,0	102,6	160	3,3
DTG-B03 250-001	DTG-30021	DTG-B03 250-001	DTG-30021	solder	49	5/16	8	45	65,0	102,6	160	3,3
DTG-B03 030-001	DTG-30022	DTG-B03 101-001	DTG-30055	solder	49	3/8	10	45	65,0	103,0	160	3,3
DTG-B03 040-001	DTG-30023	DTG-B03 121-001	DTG-30056	solder	49	1/2	12	45	65,0	113,2	160	3,3
DTG-B05 020-001	DTG-30024	DTG-B05 061-001	DTG-30057	solder	82	1/4	6	68	76,2	113,8	450	3,3
DTG-B05 250-001	DTG-30025	DTG-B05 250-001	DTG-30025	solder	82	5/16	8	68	76,2	113,8	450	3,3
DTG-B05 030-001	DTG-30026	DTG-B05 101-001	DTG-30059	solder	82	3/8	10	68	76,2	114,2	450	3,3
DTG-B05 040-001	DTG-30027	DTG-B05121-001	DTG-30060	solder	82	1/2	12	68	76,2	124,4	450	3,3
DTG-B05 050-001	DTG-30028	DTG-B05 161-001	DTG30054	solder	82	5/8	16	68	76,2	120,2	450	3,3
DTG-B08 020-001	DTG-30029	DTG-B08 061-001	DTG-30061	solder	131	1/4	6	68	96,8	134,4	550	3,3
DTG-B08 250-001	DTG-30030	DTG-B08 250-001	DTG-30030	solder	131	5/16	8	68	96,8	134,4	550	3,3
DTG-B08 030-001	DTG-30031	DTG-B08 101-001	DTG-30063	solder	131	3/8	10	68	96,8	134,8	550	3,3
DTG-B08 040-001	DTG-30032	DTG-B08 121-001	DTG-30064	solder	131	1/2	12	68	96,8	145,0	550	3,3
DTG-B08 050-001	DTG-30033	DTG-B08 161-001	DTG-30062	solder	131	5/8	16	68	96,8	140,8	550	3,3
DTG-B16 020-001	DTG-30034	DTG-B16 061-001	DTG-30065	solder	262	1/4	6	68	120,6	158,2	660	3,3
DTG-B16 250-001	DTG-30035	DTG-B16 250-001	DTG-30035	solder	262	5/16	8	68	120,6	158,2	660	3,3
DTG-B16 030-001	DTG-30036	DTG-B16 101-001	DTG-30067	solder	262	3/8	10	68	120,6	158,6	660	3,3
DTG-B16 040-001	DTG-30037	DTG-B16 121-001	DTG-30068	solder	262	1/2	12	68	120,6	168,8	660	3,3
DTG-B16 050-001	DTG-30038	DTG-B16 161-001	DTG-30066	solder	262	5/8	16	68	120,6	164,6	660	3,3
DTG-B16 060-001	DTG-30039	-	-	solder	262	3/4	-	68	120,6	180,6	660	3,3
DTG-B16 070-001	DTG-30040	DTG-B16 070-001	DTG-30040	solder	262	7/8	22	68	120,6	180,6	660	3,3
DTG-B30 030-001	DTG-30041	DTG-B30 101-001	DTG-30069	solder	492	3/8	10	80	190,5	228,5	1550	3,3
DTG-B30 040-001	DTG-30042	DTG-B30 121-001	DTG-30070	solder	492	1/2	12	80	190,5	238,7	1550	3,3
DTG-B30 050-001	DTG-30043	DTG-B30 161-001	DTG-30075	solder	492	5/8	16	80	190,5	234,5	1550	3,3
DTG-B30 060-001	DTG-30044	-	-	solder	492	3/4	-	80	190,5	250,5	1550	3,3



**GENERAL CHARACTERISTICS OF DTG-B FILTER - SOLDER CONNECTION**

Model [ inch ]	Part Number [ inch ]	Model [ mm ]	Part Number [ mm ]	Type of connection	Nominal Volumen [cm <sup>3</sup> ]	Connection		Dimensions & Weight				PED category
						Solder		DØ [mm]	B [mm]	A [mm]	Weight [g]	
						[inch]	[mm]					
DTG-B30 070-001	DTG-30045	DTG-B30 070-001	DTG-30045	solder	492	7/8	22	80	190,5	250,5	1550	3,3
DTG-B30 090-001	DTG-30046	DTG-B30 281-001	DTG-30071	solder	492	1 1/8	28	80	190,5	260,5	1550	3,3
DTG-B41 040-001	DTG-30047	DTG-B41 121-001	DTG-30072	solder	672	1/2	12	94	193,7	242,2	2050	3,3
DTG-B41 050-001	DTG-30048	DTG-B41 161-001	DTG-30058	solder	672	5/8	16	94	193,7	238,0	2050	3,3
DTG-B41 070-001	DTG-30049	DTG-B41 070-001	DTG-30049	solder	672	7/8	22	94	193,7	254,0	2050	3,3
DTG-B41 090-001	DTG-30050	DTG-B41 281-001	DTG-30073	solder	672	1 1/8	28	94	193,7	264,0	2050	3,3
DTG-B75 070-001	DTG-30051	DTG-B75 070-001	DTG-30051	solder	1229	7/8	22	94	333,5	393,5	3400	3,3
DTG-B75 090-001	DTG-30052	DTG-B75 281-001	DTG-30074	solder	1229	1 1/8	28	94	333,5	403,5	3400	3,3

**GENERAL CHARACTERISTICS OF DTG-F FILTER - FLARE CONNECTION**

Model	Part Number	Type of Connection	Nominal Volume [cm <sup>3</sup> ]	Connection		Dimensions & Weight				PED Category
				SAE Flare	ØD	B [mm]	A [mm]	Weight [g]		
				[inch]	[mm]					
DTG-F03 024-001	DTG-30078	flare	49	1/4	45	65,0	112,0	160	3,3	
DTG-F03 034-001	DTG-30079	flare	49	3/8	45	65,0	125,2	160	3,3	
DTG-F05 024-001	DTG-30080	flare	82	1/4	68	76,2	123,2	450	3,3	
DTG-F05 034-001	DTG-30081	flare	82	3/8	68	76,2	136,4	450	3,3	
DTG-F08 024-001	DTG-30082	flare	131	1/4	68	96,8	143,8	550	3,3	
DTG-F08 034-001	DTG-30083	flare	131	3/8	68	96,8	157,0	550	3,3	
DTG-F08 044-001	DTG-30084	flare	131	1/2	68	96,8	165,0	550	3,3	





**GENERAL CHARACTERISTICS OF DTG-F FILTER - FLARE CONNECTION**

Model	Part Number	Type of Connection	Nominal Volume	Connection		Dimensions & Weight				PED Category
				SAE Flare	ØD	B	A	Weight		
			[cm <sup>3</sup> ]	[inch]	[mm]	[mm]	[mm]	[g]		
DTG-F16 024-001	DTG-30085	flare	262	1/4	68	120,6	167,6	660	3,3	
DTG-F16 034-001	DTG-30086	flare	262	3/8	68	120,6	180,8	660	3,3	
DTG-F16 044-001	DTG-30087	flare	262	1/2	68	120,6	188,8	660	3,3	
DTG-F16 054-001	DTG-30088	flare	262	5/8	68	120,6	198,0	660	3,3	
DTG-F16 064-001	DTG-30089	flare	262	3/4	68	120,6	198,0	660	3,3	
DTG-F30 034-001	DTG-30090	flare	492	3/8	80	190,5	250,7	1550	3,3	
DTG-F30 044-001	DTG-30091	flare	492	1/2	80	190,5	258,7	1550	3,3	
DTG-F30 054-001	DTG-30092	flare	492	5/8	80	190,5	268,0	1550	3,3	
DTG-F30 064-001	DTG-30093	flare	492	3/4	80	190,5	268,0	1550	3,3	
DTG-F30 074-001	DTG-30094	flare	492	7/8	80	190,5	280,5	1550	3,3	
DTG-F41 044-001	DTG-30095	flare	672	1/2	94	194,0	262,2	2050	3,3	
DTG-F41 054-001	DTG-30096	flare	672	5/8	94	194,0	271,4	2050	3,3	

**GENERAL CHARACTERISTICS OF DTG-F FILTER - SOLDER CONNECTION**

Model [ inch ]	Part Number [ inch ]	Model [ mm ]	Part Number [ mm ]	Type of connection	Nominal Volumen	Connection		Dimensions & Weight				PED category
						Solder		ØD	B	A	Weight	
					[cm <sup>3</sup> ]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	
DTG-F03 020-001	DTG-30097	DTG-F03 061-001	DTG-30130	solder	49	1/4	6	45	65,0	102,6	160	3,3
DTG-F03 250-001	DTG-30098	DTG-F03 250-001	DTG-30098	solder	49	5/16	8	45	65,0	102,6	160	3,3
DTG-F03 030-001	DTG-30099	DTG-F03 101-001	DTG-30131	solder	49	3/8	10	45	65,0	103,0	160	3,3
DTG-F03 040-001	DTG-30100	DTG-F03 121-001	DTG-30132	solder	49	1/2	12	45	65,0	113,2	160	3,3
DTG-F05 020-001	DTG-30101	DTG-F05 061-001	DTG-30133	solder	82	1/4	6	68	76,2	113,8	450	3,3
DTG-F05 250-001	DTG-30102	DTG-F05 250-001	DTG-30102	solder	82	5/16	8	68	76,2	113,8	450	3,3
DTG-F05 030-001	DTG-30103	DTG-F05 101-001	DTG-30134	solder	82	3/8	10	68	76,2	114,2	450	3,3
DTG-F05 040-001	DTG-30104	DTG-F051 21-001	DTG-30135	solder	82	1/2	12	68	76,2	124,4	450	3,3
DTG-F05 050-001	DTG-30105	DTG-F05 1 61-001	DTG-30136	solder	82	5/8	16	68	76,2	120,2	450	3,3
DTG-F08 020-001	DTG-30106	DTG-F08 061-001	DTG-30137	solder	131	1/4	6	68	96,8	134,4	550	3,3
DTG-F08 250-001	DTG-30107	DTG-F08 250-001	DTG-30107	solder	131	5/16	8	68	96,8	134,4	550	3,3
DTG-F08 030-001	DTG-30108	DTG-F08 101-001	DTG-30138	solder	131	3/8	10	68	96,8	134,8	550	3,3



**GENERAL CHARACTERISTICS OF DTG-F FILTER - SOLDER CONNECTION**

Model [ inch ]	Part Number [ inch ]	Model [ mm ]	Part Number [ mm ]	Type pf connection	Nominal Volumen [cm <sup>3</sup> ]	Connection		Dimensions & Weight				PED category
						Solder		DØ [mm]	B [mm]	A [mm]	Weight [g]	
						[inch]	[mm]					
DTG-F08 040-001	DTG-30109	DTG-F08 121-001	DTG-30139	solder	131	1/2	12	68	96,8	145,0	550	3,3
DTG-F08 050-001	DTG-30110	DTG-F08 161-001	DTG-30140	solder	131	5/8	16	68	96,8	140,8	550	3,3
DTG-F16 020-001	DTG-30111	DTG-F16 061-001	DTG-30141	solder	262	1/4	6	68	120,6	158,2	660	3,3
DTG-F16 250-001	DTG-30112	DTG-F16 250-001	DTG-30112	solder	262	5/16	8	68	120,6	158,2	660	3,3
DTG-F16 030-001	DTG-30113	DTG-F16 101-001	DTG-30142	solder	262	3/8	10	68	120,6	158,6	660	3,3
DTG-F16 040-001	DTG-30114	DTG-F16 121-001	DTG-30143	solder	262	1/2	12	68	120,6	168,8	660	3,3
DTG-F16 050-001	DTG-30115	DTG-F16 161-001	DTG-30144	solder	262	5/8	16	68	120,6	164,6	660	3,3
DTG-F16 060-001	DTG-30116	-	-	solder	262	3/4	-	68	120,6	180,6	660	3,3
DTG-F16 070-001	DTG-30117	DTG-F16 070-001	DTG-30117	solder	262	7/8	22	68	120,6	180,6	660	3,3
DTG-F30 030-001	DTG-30118	DTG-F30 101-001	DTG-30145	solder	492	3/8	10	80	190,5	228,5	1550	3,3
DTG-F30 040-001	DTG-30119	DTG-F30 121-001	DTG-30146	solder	492	1/2	12	80	190,5	238,7	1550	3,3
DTG-F30 050-001	DTG-30120	DTG-F30 161-001	DTG-30147	solder	492	5/8	16	80	190,5	234,5	1550	3,3
DTG-F30 060-001	DTG-30121	-	-	solder	492	3/4	-	80	190,5	250,5	1550	3,3
DTG-F30 070-001	DTG-30122	DTG-F30 070-001	DTG-30122	solder	492	7/8	22	80	190,5	250,5	1550	3,3
DTG-F30 090-001	DTG-30123	DTG-F30 281-001	DTG-30148	solder	492	1 1/8	28	80	190,5	260,5	1550	3,3
DTG-F41 040-001	DTG-30124	DTG-F41 121-001	DTG-30149	solder	672	1/2	12	94	193,7	242,2	2050	3,3
DTG-F41 050-001	DTG-30125	DTG-F41 161-001	DTG-30150	solder	672	5/8	16	94	193,7	238,0	2050	3,3
DTG-F41 070-001	DTG-30126	DTG-F41 070-001	DTG-30126	solder	672	7/8	22	94	193,7	254,0	2050	3,3
DTG-F41 090-001	DTG-30127	DTG-F41 281-001	DTG-30151	solder	672	1 1/8	28	94	193,7	264,0	2050	3,3
DTG-F75 070-001	DTG-30128	DTG-F75 070-001	DTG-30128	solder	1229	7/8	22	94	333,5	393,5	3400	3,3
DTG-F75 090-001	DTG-30129	DTG-F75 281-001	DTG-30152	solder	1229	1 1/8	28	94	333,5	403,5	3400	3,3

**SELECTION TABLE**

Model	Capacity [ kW ]					Moisture Absorption (gram H <sub>2</sub> O)							
	R134a	R404A	R22	R407C	R410A	R134a		R404A		R407C		R22	
		R507A				75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
						23,9°C	51,7°C	23,9°C	51,7°C	23,9°C	51,7°C	23,9°C	51,7°C
						R507A		R410A		R410A		R410A	
DTG-B03 020-001	7,7	6,7	8,1	8,1	8,1	4,2	3,8	5,7	3,4	3,4	3,1	3,7	3,4
DTG-B03 024-001	7,0	4,9	7,0	7,0	7,4	4,2	3,8	5,7	3,4	3,4	3,1	3,7	3,4
DTG-B03 250-001	9,5	6,7	9,5	9,5	9,8	4,2	3,8	5,7	3,4	3,4	3,1	3,7	3,4
DTG-B03 030-001	14,4	10,6	14,8	14,8	14,8	4,2	3,8	5,7	3,4	3,4	3,1	3,7	3,4
DTG-B03 034-001	9,5	6,7	9,5	9,5	9,8	4,2	3,8	5,7	3,4	3,4	3,1	3,7	3,4

# DTG/L SERIES Uni-Flow Filter Driers



## SELECTION TABLE

Model	Capacity [ kW ]					Moisture Absorption (gram H <sub>2</sub> O)							
	R134a	R404A	R22	R407C	R410A	R134a		R404A		R407C		R22	
		R507A				75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
						23,9°C	51,7°C	23,9°C	51,7°C	23,9°C	51,7°C	23,9°C	51,7°C
DTG-B03 020-001	7,7	6,7	8,1	8,1	8,1	4,2	3,8	5,7	3,4	3,4	3,1	3,7	3,4
DTG-B03 024-001	7,0	4,9	7,0	7,0	7,4	4,2	3,8	5,7	3,4	3,4	3,1	3,7	3,4
DTG-B03 250-001	9,5	6,7	9,5	9,5	9,8	4,2	3,8	5,7	3,4	3,4	3,1	3,7	3,4
DTG-B03 030-001	14,4	10,6	14,8	14,8	14,8	4,2	3,8	5,7	3,4	3,4	3,1	3,7	3,4
DTG-B03 034-001	9,5	6,7	9,5	9,5	9,8	4,2	3,8	5,7	3,4	3,4	3,1	3,7	3,4
DTG-B03 040-001	24,6	17,2	25,0	24,6	25,0	4,2	3,8	5,7	3,4	3,4	3,1	3,7	3,4
DTG-B05 020-001	8,4	6,0	8,4	8,4	8,4	11,6	10,9	17,7	10,2	10,9	9,5	11,4	9,7
DTG-B05 024-001	7,0	4,9	7,0	7,0	7,4	11,6	10,9	17,7	10,2	10,9	9,5	11,4	9,7
DTG-B05 250-001	10,9	7,4	10,9	10,9	11,3	11,6	10,9	17,7	10,2	10,9	9,5	11,4	9,7
DTG-B05 030-001	23,9	16,9	24,3	23,9	24,6	11,6	10,9	17,7	10,2	10,9	9,5	11,4	9,7
DTG-B05 034-001	10,9	7,4	10,9	10,9	11,3	11,6	10,9	17,7	10,2	10,9	9,5	11,4	9,7
DTG-B05 040-001	25,3	17,9	25,7	25,7	26,0	11,6	10,9	17,7	10,2	10,9	9,5	11,4	9,7
DTG-B05 050-001	34,8	24,6	35,5	35,2	35,9	11,6	10,9	17,7	10,2	10,9	9,5	11,4	9,7
DTG-B08 020-001	8,4	6,0	8,4	8,4	8,4	14,8	14,2	23,7	19,8	14,8	13,0	15,5	13,1
DTG-B08 024-001	7,0	4,9	7,0	7,0	7,4	14,8	14,2	23,7	19,8	14,8	13,0	15,5	13,1
DTG-B08 250-001	11,6	8,1	12,0	11,6	12,0	14,8	14,2	23,7	19,8	14,8	13,0	15,5	13,1
DTG-B08 030-001	25,0	17,6	25,3	25,0	25,7	14,8	14,2	23,7	19,8	14,8	13,0	15,5	13,1
DTG-B08 034-001	11,6	8,1	12,0	11,6	12,0	14,8	14,2	23,7	19,8	14,8	13,0	15,5	13,1
DTG-B08 040-001	30,6	21,5	31,3	30,9	31,7	14,8	14,2	23,7	19,8	14,8	13,0	15,5	13,1
DTG-B08 044-001	25,3	17,9	25,7	25,7	26,0	14,8	14,2	23,7	19,8	14,8	13,0	15,5	13,1
DTG-B08 050-001	44,7	31,7	45,7	45,4	46,1	14,8	14,2	23,7	19,8	14,8	13,0	15,5	13,1
DTG-B16 020-001	10,9	7,7	11,3	10,9	11,3	20,6	19,5	33,2	18,3	20,6	17,6	20,9	17,7
DTG-B16 024-001	7,4	6,0	7,7	7,4	7,7	20,6	19,5	33,2	18,3	20,6	17,6	20,9	17,7
DTG-B16 250-001	11,6	8,1	12,0	11,6	12,0	20,6	19,5	33,2	18,3	20,6	17,6	20,9	17,7
DTG-B16 030-001	25,7	17,9	26,0	26,0	26,4	20,6	19,5	33,2	18,3	20,6	17,6	20,9	17,7
DTG-B16 034-001	11,6	8,1	12,0	11,6	12,0	20,6	19,5	33,2	18,3	20,6	17,6	20,9	17,7
DTG-B16 040-001	32,4	22,9	33,1	32,7	33,8	20,6	19,5	33,2	18,3	20,6	17,6	20,9	17,7
DTG-B16 044-001	25,7	17,9	26,0	26,0	26,4	20,6	19,5	33,2	18,3	20,6	17,6	20,9	17,7
DTG-B16 050-001	43,3	30,6	43,6	43,6	44,3	20,6	19,5	33,2	18,3	20,6	17,6	20,9	17,7
DTG-B16 054-001	32,4	22,9	33,1	32,7	33,8	20,6	19,5	33,2	18,3	20,6	17,6	20,9	17,7
DTG-B16 060-001	46,4	32,7	47,1	46,8	47,8	20,6	19,5	33,2	18,3	20,6	17,6	20,9	17,7
DTG-B16 064-001	44,7	31,7	45,7	45,4	46,1	20,6	19,5	33,2	18,3	20,6	17,6	20,9	17,7
DTG-B16 070-001	47,1	33,4	48,2	47,8	48,5	20,6	19,5	33,2	18,3	20,6	17,6	20,9	17,7
DTG-B30 030-001	25,7	17,9	26,0	26,0	26,4	51,4	48,7	83,4	51,4	51,3	43,7	52,1	44,1
DTG-B30 034-001	17,9	12,7	18,3	17,9	18,3	51,4	48,7	83,4	51,4	51,3	43,7	52,1	44,1
DTG-B30 040-001	33,1	23,2	33,8	33,4	34,1	51,4	48,7	83,4	51,4	51,3	43,7	52,1	44,1
DTG-B30 044-001	28,1	19,7	28,8	28,5	28,8	51,4	48,7	83,4	51,4	51,3	43,7	52,1	44,1
DTG-B30 050-001	45,7	32,0	46,4	46,1	46,8	51,4	48,7	83,4	51,4	51,3	43,7	52,1	44,1

# DTG/L SERIES

## Uni-Flow Filter Driers



### SELECTION TABLE

Model	Capacity [ kW ]					Moisture Absorption (gram H <sub>2</sub> O)							
	R134a	R404A	R22	R407C	R410A	R134a		R404A		R407C		R22	
		R507A				75°F	125°F	75°F	125°F	75°F	125°F		
	23,9°C		51,7°C	23,9°C	51,7°C	23,9°C	51,7°C						
	23,9°C		51,7°C	23,9°C	51,7°C	23,9°C	51,7°C						
DTG-B30 054-001	34,5	24,3	35,2	34,8	35,5	51,4	48,7	83,4	51,4	51,3	43,7	52,1	44,1
DTG-B30 060-001	62,6	44,0	63,7	63,3	64,4	51,4	48,7	83,4	51,4	51,3	43,7	52,1	44,1
DTG-B30 064-001	61,5	42,9	62,6	61,9	63,3	51,4	48,7	83,4	51,4	51,3	43,7	52,1	44,1
DTG-B30 070-001	63,0	44,3	64,0	63,7	64,7	51,4	48,7	83,4	51,4	51,3	43,7	52,1	44,1
DTG-B30 074-001	62,6	44,0	63,7	63,3	64,4	51,4	48,7	83,4	51,4	51,3	43,7	52,1	44,1
DTG-B30 090-001	70,7	52,1	75,3	74,6	76,0	51,4	48,7	83,4	51,4	51,3	43,7	52,1	44,1
DTG-B41 040-001	35,2	24,6	35,9	35,5	36,2	63,7	59,7	103,5	55,7	63,7	58,9	70,2	59,4
DTG-B41 044-001	30,9	21,8	31,7	31,7	32,0	63,7	59,7	103,5	55,7	63,7	58,9	70,2	59,4
DTG-B41 050-001	60,8	42,9	61,9	61,5	62,6	63,7	59,7	103,5	55,7	63,7	58,9	70,2	59,4
DTG-B41 054-001	36,9	26,0	37,6	37,3	38,0	63,7	59,7	103,5	55,7	63,7	58,9	70,2	59,4
DTG-B41 070-001	90,4	63,7	91,8	91,4	92,8	63,7	59,7	103,5	55,7	63,7	58,9	70,2	59,4
DTG-B41 090-001	92,1	64,7	93,6	92,8	94,6	63,7	59,7	103,5	55,7	63,7	58,9	70,2	59,4
DTG-B75 070-001	91,4	64,0	92,8	91,8	93,9	123,3	115,6	200,3	107,9	123,3	114,0	135,8	114,9
DTG-B75 090-001	95,3	67,2	97,1	96,4	98,1	123,3	115,6	200,3	107,9	123,3	114,0	135,8	114,9

**Note:** The above data is based on filter driers with inch connections and clean system at ideal conditions; with impurities accumulated in the filter, the capacity may decrease.

### SELECTION FORMULAS

Filter Driers for liquid line are manufactured in compliance with ARI Standard 710. Maximum flow rate of liquid refrigerant at a differential pressure of 0,07bar (1psi) is indicated by kW (ton) which is based on the temperature of liquid refrigerant 30°C (86°F), the evaporating temperature of -15°C (5°F) and the following mass flow:

- 0,40 kg/min/kW (3.1 lb/min/ton) R134a
- 0,53 kg/min/kW (4.1 lb/min/ton) R404A, R507A
- 0,39 kg/min/kW (3.0 lb/min/ton) R22, R407C
- 0,36 kg/min/kW (2.8 lb/min/ton) R410A

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

- 60ppm R22
- 50ppm R134a
- 50ppm R404A
- 50ppm R407C
- 50ppm R410A
- 50ppm R507A

# Bi-Flow Filter Driers

The filter driers of series STG are used in refrigeration system with bi-directional flow to absorb moisture and acid in the system and to filter out the impurities.



## FEATURES

- HIGH EFFICIENT IN MOISTURE ABSORPTION, FILTERING IMPURITY, ACID, PAINT REMAINS AND MUD REMOVAL
- HYBRID DESICCANT
- DURABLE AND SOLID FILTER CORES
- FILTERING FINENESS: 20µm
- CORROSION RESISTANT PAINTING CAN SURVIVE SALT SPRAY TEST OF 500 HOURS.
- CONNECTION TYPE: FLARE OR SOLDER

## GENERAL SPECIFICATIONS

- Applicable for all common HCFC, HFC and CFC refrigerants such as: R22, R134a, R404A, R407C, R410A, R507A ...
- Min./max. ambient temperature: -30°C to +55°C
- TS min./max.: -30°C / +120°C
- PS: 4,83 MPa (48,3 bar)
- Installation position: preferably installed in liquid line
- UL/CSA and PED declaration

## TECHNICAL PARAMETERS *Desiccant Selection Table*

	Medium Type	80% 3A desiccant and 20% active alumina	100% 3A desiccant
Refrigerant <sup>1</sup>	HFC	Applicable	Applicable
	HCFC	Applicable	Applicable
	CFC	Applicable	Not Applicable
	HC	Applicable	Applicable
Oil <sup>2</sup>	Mineral oil or AB	Applicable	Applicable
	Pure POE or PAG	Applicable	Applicable
	POE or PAG with additive	Not Applicable	Applicable

**Note:** 1) For CFC system, usage of core with alumina is recommended as a strong capability to absorb acid may be needed.  
 2) When the systems use oil with additive, it is not recommended to use a core with alumina.

# STG/L SERIES

## Bi-Flow Filter Driers



### Model Designation Legend

<b>1</b>	<b>Product Code</b>	<b>Filter Drier Series</b>	
	STG	Indicates bidirectional filter drier	
<b>2</b>	<b>Filter Core</b>	<b>Structure and Material</b>	
	A	Loos core, 100%3Å desiccant	
	B	Solid core, 100%3Å desiccant	
	E	Loos core, 80% 3Å desiccant and 20% active alumina	
F	Solid core, 80% 3Å desiccant and 20% active alumina		
<b>3</b>	<b>Internal Volume</b>	<b>Expressed in [ inch<sup>3</sup> ]</b>	<b>Expressed in [ cm<sup>3</sup> ]</b>
	03	3	49
	05	5	82
	08	8	131
	16	16	262
	30	30	492
<b>4</b>	<b>Connection Size</b>	<b>Pos. 5 shows "0": Solder [inch]</b>	<b>Pos. 5 shows "4": SAE Flare [inch]</b>
	02	1/4	1/4
	25	5/16	-
	03	3/8	3/8
	04	1/2	1/2
	05	5/8	5/8
	06	3/4	3/4
	07	7/8	7/8
	09	1 1/8	-
	<b>Connection Size</b>	<b>Pos. 5 shows "1": Solder [mm]</b>	
	06	6	
	08	8	
	10	10	
	12	12	
	16	16	
22	22		
28	28		
<b>5</b>	<b>Pipe Connection</b>	<b>Type</b>	
	0	Solder with inch connections	
	1	Solder with metric connections	
	4	SAE flare connections	
<b>6</b>	<b>Version Number</b>	<b>Description</b>	
	001	Standard product	

# STG/L SERIES Bi-Flow Filter Driers

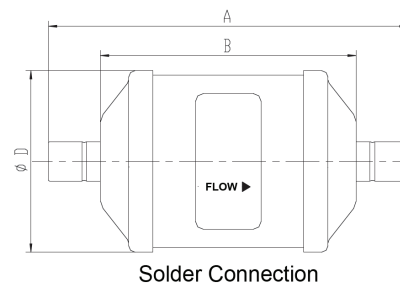
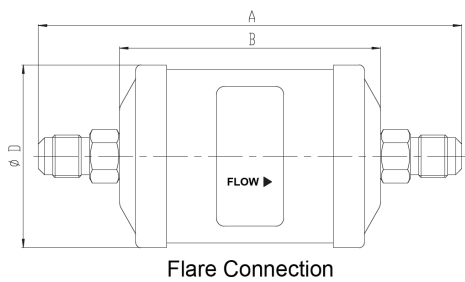


## MODEL DESIGNATION EXAMPLE

Position Number						According to Model Designation Legend
1	2	3	4	5	6	
<b>STG</b>	B	05	06	1	001	Bidirectional filter drier
STG	<b>B</b>	05	06	1	001	Solid filter core with 100% 3Å desiccant
STG	B	<b>05</b>	06	1	001	5 inch <sup>3</sup> internal volume
STG	B	05	<b>06</b>	1	001	When Pos. 5 is "1": connection size 6mm
STG	B	05	06	<b>1</b>	001	Solder connection metric
STG	B	05	06	1	<b>001</b>	Standard product

## GENERAL CHARACTERISTICS OF STG-B FILTER - FLARE CONNECTION

Model	Part Number	Type of Connection	Nominal Volume	Connection		Dimensions & Weight			PED Category
				SAE Flare	ØD	B	A	Weight	
				[cm <sup>3</sup> ]	[inch]	[mm]	[mm]	[mm]	
STG-B05 024-001	STG-31001	flare	82	1/4	68	76,2	123,2	450	3,3
STG-B05 034-001	STG-31002	flare	82	3/8	68	76,3	136,4	450	3,3
STG-B05 044-001	STG-31003	flare	82	1/2	68	76,4	144,4	450	3,3
STG-B08 024-001	STG-31004	flare	131	1/4	68	97,3	144,3	580	3,3
STG-B08 034-001	STG-31005	flare	131	3/8	68	97,5	157,5	580	3,3
STG-B08 044-001	STG-31006	flare	131	1/2	68	97,6	165,5	580	3,3
STG-B16 034-001	STG-31007	flare	262	3/8	80	118,1	178,3	900	3,3
STG-B16 044-001	STG-31008	flare	262	1/2	80	118,2	186,3	900	3,3
STG-B16 054-001	STG-31009	flare	262	5/8	80	118,3	195,5	900	3,3
STG-B30 034-001	STG-31010	flare	492	3/8	80	192,5	252,7	1700	3,3
STG-B30 044-001	STG-31011	flare	492	1/2	80	192,6	260,7	1700	3,3
STG-B30 054-001	STG-31012	flare	492	5/8	80	192,7	269,9	1700	3,3
STG-B30 064-001	STG-31013	flare	492	3/4	80	192,8	269,9	1700	3,3





**GENERAL CHARACTERISTICS OF STG-B FILTER - SOLDER CONNECTION**

Model [ inch ]	Part Number [ inch ]	Model [ mm ]	Part Number [ mm ]	Type pf connection	Nominal Volumen [ cm <sup>3</sup> ]	Connection		Dimensions & Weight				PED category
						Solder		DØ [mm]	B [mm]	A [mm]	Weight [g]	
						[inch]	[mm]					
STG-B05 020-001	STG-31014	STG-B05 061-001	STG-31031	solder	82	1/4	6	68	76	113,8	450	3,3
STG-B05 030-001	STG-31015	STG-B05 101-001	STG-31032	solder	82	3/8	10	68	76	113,8	450	3,3
STG-B05 040-001	STG-31016	STG-B05 121-001	STG-31033	solder	82	1/2	12	68	76	124,4	450	3,3
STG-B08 020-001	STG-31017	STG-B08 061-001	STG-31034	solder	131	1/4	6	68	97	134,9	580	3,3
STG-B08 250-001	STG-31018	STG-B08 250-001	STG-31018	solder	131	5/16	8	68	97	134,9	580	3,3
STG-B08 030-001	STG-31019	STG-B08 101-001	STG-31035	solder	131	3/8	10	68	98	134,9	580	3,3
STG-B08 040-001	STG-31020	STG-B08 121-001	STG-31036	solder	131	1/2	12	68	98	145,5	580	3,3
STG-B16 030-001	STG-31021	STG-B16 101-001	STG-31037	solder	262	3/8	10	80	118	155,7	900	3,3
STG-B16 040-001	STG-31022	STG-B16 121-001	STG-31038	solder	262	1/2	12	80	118	166,3	900	3,3
STG-B16 050-001	STG-31023	STG-B16 161-001	STG-31023	solder	262	5/8	16	80	118	162,1	900	3,3
STG-B16 070-001	STG-31024	STG-B16 070-001	STG-31024	solder	262	7/8	22	80	118	178,1	900	3,3
STG-B30 030-001	STG-31025	STG-B30 101-001	STG-31039	solder	492	3/8	10	80	193	230,1	1700	3,3
STG-B30 040-001	STG-31026	STG-B30 121-001	STG-31040	solder	492	1/2	12	80	193	240,7	1700	3,3
STG-B30 050-001	STG-31027	STG-B30 161-001	STG-31027	solder	492	5/8	16	80	193	236,5	1700	3,3
STG-B30 060-001	STG-31028	-	-	solder	492	3/4	-	80	193	236,5	1700	3,3
STG-B30 070-001	STG-31029	STG-B30 070-001	STG-31029	solder	492	7/8	22	80	193	252,5	1700	3,3
STG-B30 090-001	STG-31030	STG-B30 281-001	STG-31043	solder	492	1 1/8	28	80	192	262,5	1700	3,3





**GENERAL CHARACTERISTICS OF STG-F FILTER - FLARE CONNECTION**

Model	Part Number	Type of Connection	Nominal Volume	Connection		Dimensions & Weight				PED Category
				SAE Flare	ØD	B	A	Weight		
			[cm³]	[inch]	[mm]	[mm]	[mm]	[g]		
STG-F05 024-001	STG-31044	flare	82	1/4	68	76,2	123,2	450	3,3	
STG-F05 034-001	STG-31045	flare	82	3/8	68	76,3	136,4	450	3,3	
STG-F05 044-001	STG-31046	flare	82	1/2	68	76,4	144,4	450	3,3	
STG-F08 024-001	STG-31047	flare	131	1/4	68	97,3	144,3	580	3,3	
STG-F08 034-001	STG-31048	flare	131	3/8	68	97,5	157,5	580	3,3	
STG-F08 044-001	STG-31049	flare	131	1/2	68	97,6	165,5	580	3,3	
STG-F16 034-001	STG-31050	flare	262	3/8	80	118,1	178,3	900	3,3	
STG-F16 044-001	STG-31051	flare	262	1/2	80	118,2	186,3	900	3,3	
STG-F16 054-001	STG-31052	flare	262	5/8	80	118,3	195,5	900	3,3	
STG-F30 034-001	STG-31053	flare	492	3/8	80	192,5	252,7	1700	3,3	
STG-F30 044-001	STG-31054	flare	492	1/2	80	192,6	260,7	1700	3,3	
STG-F30 054-001	STG-31055	flare	492	5/8	80	192,7	269,9	1700	3,3	
STG-F30 064-001	STG-31056	flare	492	3/4	80	192,8	269,9	1700	3,3	

**GENERAL CHARACTERISTICS OF STG-F FILTER - SOLDER CONNECTION**

Model [ inch ]	Part Number [ inch ]	Model [ mm ]	Part Number [ mm ]	Type of connection	Nominal Volume	Connection		Dimensions & Weight				PED category
						Solder		ØD	B	A	Weight	
					[cm³]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	
STG-F05 020-001	STG-31057	STG-F05 061-001	STG-31074	solder	82	1/4	6	68	76,2	113,8	450	3,3
STG-F05 030-001	STG-31058	STG-F05 101-001	STG-31075	solder	82	3/8	10	68	76,3	113,8	450	3,3
STG-F05 040-001	STG-31059	STG-F05 121-001	STG-31076	solder	82	1/2	12	68	76,4	124,4	450	3,3
STG-F08 020-001	STG-31060	STG-F08 061-001	STG-31077	solder	131	1/4	6	68	97,3	134,9	580	3,3
STG-F08 250-001	STG-31061	STG-F08 250-001	STG-31061	solder	131	5/16	8	68	97,4	134,9	580	3,3
STG-F08 030-001	STG-31062	STG-F08 101-001	STG-31078	solder	131	3/8	10	68	97,5	134,9	580	3,3
STG-F08 040-001	STG-31063	STG-F08 121-001	STG-31079	solder	131	1/2	12	68	97,6	145,5	580	3,3
STG-F16 030-001	STG-31064	STG-F16 101-001	STG-31080	solder	262	3/8	10	80	118,1	155,7	900	3,3
STG-F16 040-001	STG-31065	STG-F16 121-001	STG-31081	solder	262	1/2	12	80	118,2	166,3	900	3,3
STG-F16 050-001	STG-31066	STG-F16 161-001	STG-31082	solder	262	5/8	16	80	118,3	162,1	900	3,3
STG-F16 070-001	STG-31067	STG-F16 070-001	STG-31067	solder	262	7/8	22	80	118,4	178,1	900	3,3
STG-F30 030-001	STG-31068	STG-F30 101-001	STG-31083	solder	492	3/8	10	80	192,5	230,1	1700	3,3



**GENERAL CHARACTERISTICS OF STG-F FILTER - SOLDER CONNECTION**

Model [ inch ]	Part Number [ inch ]	Model [ mm ]	Part Number [ mm ]	Type pf connection	Nominal Volumen [ cm <sup>3</sup> ]	Connection		Dimensions & Weight				PED category
						Solder		Dø [ mm ]	B [ mm ]	A [ mm ]	Weight [ g ]	
						[ inch ]	[ mm ]					
STG-F30 040-001	STG-31069	STG-F30 121-001	STG-31084	solder	492	1/2	12	80	192,6	240,7	1700	3,3
STG-F30 050-001	STG-31070	STG-F30 161-001	STG-31085	solder	492	5/8	16	80	192,7	236,5	1700	3,3
STG-F30 060-001	STG-31071	-	-	solder	492	3/4	-	80	192,8	236,5	1700	3,3
STG-F30 070-001	STG-31072	STG-F30 070-001	STG-31072	solder	492	7/8	22	80	192,9	252,5	1700	3,3
STG-F30 090-001	STG-31073	STG-F30 281-001	STG-31086	solder	492	1 1/8	28	80	192,1	262,5	1700	3,3

**SELECTION TABLE**

Model	Capacity [ kW ] <sup>1</sup>					Moisture Absorption (gram H <sub>2</sub> O)							
	R134a	R404A	R22	R407C <sup>2</sup>	R410A	R134a		R404A		R407C <sup>2</sup>		R22	
		R507A				75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
						23,9°C	51,7°C	23,9°C	51,7°C	23,9°C	51,7°C	23,9°C	51,7°C
STG-B05 020-001	7,4	5,3	7,7	7,7	7,7	4,3	4,0	4,1	3,8	3,7	3,4	4,1	3,7
STG-B05 024-001	3,5	2,5	3,5	3,5	3,5	4,3	4,0	4,1	3,8	3,7	3,4	4,1	3,7
STG-B05 030-001	16,5	11,6	16,9	16,5	16,9	4,3	4,0	4,1	3,8	3,7	3,4	4,1	3,7
STG-B05 034-001	11,6	8,1	11,6	12,0	11,6	4,3	4,0	4,1	3,8	3,7	3,4	4,1	3,7
STG-B05 040-001	25,0	17,6	25,3	25,0	25,3	4,3	4,0	4,1	3,8	3,7	3,4	4,1	3,7
STG-B05 044-001	15,8	11,3	16,2	15,8	16,2	4,3	4,0	4,1	3,8	3,7	3,4	4,1	3,7
STG-B08 020-001	8,8	6,0	8,8	8,8	8,8	9,8	9,0	9,2	8,6	8,5	7,8	9,2	8,5
STG-B08 024-001	5,3	3,5	5,6	5,3	5,6	9,8	9,0	9,2	8,6	8,5	7,8	9,2	8,5
STG-B08 250-001	15,8	10,9	16,2	15,8	16,2	9,8	9,0	9,2	8,6	8,5	7,8	9,2	8,5
STG-B08 030-001	17,2	12,0	17,6	17,2	17,6	9,8	9,0	9,2	8,6	8,5	7,8	9,2	8,5
STG-B08 034-001	15,8	10,9	16,2	15,8	16,2	9,8	9,0	9,2	8,6	8,5	7,8	9,2	8,5
STG-B08 040-001	25,7	17,9	26,4	26,0	26,4	9,8	9,0	9,2	8,6	8,5	7,8	9,2	8,5
STG-B08 044-001	16,5	11,6	16,9	16,9	17,2	9,8	9,0	9,2	8,6	8,5	7,8	9,2	8,5
STG-B16 030-001	19,7	13,7	20,0	19,7	20,0	17,6	16,3	16,6	15,5	15,2	14,0	16,6	14,2
STG-B16 034-001	17,9	12,7	18,3	17,9	18,3	17,6	16,3	16,6	15,5	15,2	14,0	16,6	14,2
STG-B16 040-001	30,2	21,5	30,9	30,6	30,9	17,6	16,3	16,6	15,5	15,2	14,0	16,6	14,2
STG-B16 044-001	19,7	13,7	20,0	19,7	20,0	17,6	16,3	16,6	15,5	15,2	14,0	16,6	14,2
STG-B16 050-001	34,1	23,9	34,8	34,5	35,2	17,6	16,3	16,6	15,5	15,2	14,0	16,6	14,2
STG-B16 054-001	30,2	21,5	30,9	30,6	30,9	17,6	16,3	16,6	15,5	15,2	14,0	16,6	14,2
STG-B16 070-001	42,2	29,9	42,9	42,6	43,3	17,6	16,3	16,6	15,5	15,2	14,0	16,6	14,2
STG-B30 030-001	25,0	17,6	25,3	25,0	25,7	41,3	38,4	38,9	36,5	35,9	32,9	39,1	33,1

# STG/L SERIES

## Bi-Flow Filter Driers



### SELECTION TABLE

Model	Capacity [ kW ] <sup>1</sup>					Moisture Absorption (gram H <sub>2</sub> O)							
	R134a	R404A	R22	R407C <sup>2</sup>	R410A	R134a		R404A		R407C <sup>2</sup>		R22	
		R507A				75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
						23,9°C	51,7°C	23,9°C	51,7°C	23,9°C	51,7°C	23,9°C	51,7°C
	STG-B30 034-001	21,1	14,8	21,5	21,1	21,8	41,3	38,4	38,9	36,5	35,9	32,9	39,1
STG-B30 040-001	30,9	21,8	31,7	31,7	32,0	41,3	38,4	38,9	36,5	35,9	32,9	39,1	33,1
STG-B30 044-001	25,0	17,6	25,3	25,0	25,7	41,3	38,4	38,9	36,5	35,9	32,9	39,1	33,1
STG-B30 050-001	35,5	25,0	36,2	35,9	36,6	41,3	38,4	38,9	36,5	35,9	32,9	39,1	33,1
STG-B30 054-001	30,9	21,8	31,7	31,7	32,0	41,3	38,4	38,9	36,5	35,9	32,9	39,1	33,1
STG-B30 060-001	39,6	28,1	40,1	39,7	40,4	41,3	38,4	38,9	36,5	35,9	32,9	39,1	33,1
STG-B30 064-001	35,5	25,0	36,2	35,9	36,6	41,3	38,4	38,9	36,5	35,9	32,9	39,1	33,1
STG-B30 070-001	46,4	32,4	47,1	46,8	47,5	41,3	38,4	38,9	36,5	35,9	32,9	39,1	33,1
STG-B30 090-001	54,2	38,0	55,2	54,5	55,6	41,3	38,4	38,9	36,5	35,9	32,9	39,1	33,1

**Note:** 1) The above data is based on filter driers with inch connections and clean system at ideal conditions; with impurities accumulated in the filter, the capacity may decrease.

2) R407C data based on dew point conditions

### SELECTION FORMULAS

Filter Driers for liquid line are manufactured in compliance with ARI Standard 710. Maximum flow rate of liquid refrigerant at a differential pressure of 0,07bar (1psi) is indicated by kW (ton) which is based on the temperature of liquid refrigerant 30°C (86°F), the evaporating temperature of -15°C (5°F) and the following mass flow:

- 0,40 kg/min/kW (3.1 lb/min/ton) R134a
- 0,53 kg/min/kW (4.1 lb/min/ton) R404A, R507A
- 0,39 kg/min/kW (3.0 lb/min/ton) R22, R407C
- 0,36 kg/min/kW (2.8 lb/min/ton) R410A

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

- 60ppm R22
- 50ppm R134a
- 50ppm R404A
- 50ppm R407C
- 50ppm R410A
- 50ppm R507A

# Copper Filter Drier

The copper filter driers of series BGQ are used in refrigeration system with unidirectional flow to absorb moisture and acid in the system and to filter out the impurities.



## FEATURES

- COMPACT DESIGN AND LOW WEIGHT
- HIGH EFFICIENT IN MOISTURE ABSORPTION AND FILTERING IMPURITY
- HYBRID DESICCANT
- SOLID FILTER
- FILTERING FINENESS: 100µM
- CONNECTION TYPE: SOLDER

## GENERAL SPECIFICATIONS

- Applicable for all common HCFC, HFC and CFC refrigerants such as: R22, R134a, R404A, R407C, R410A, R507
- TS min./max.: -30°C / +80°C
- PS: 4,2 MPa
- Certifications: PED

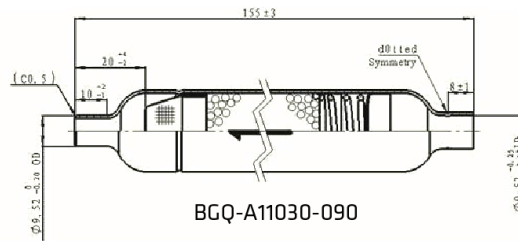
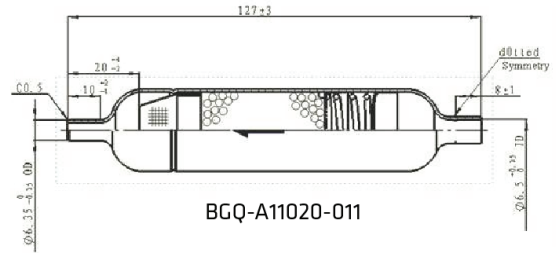
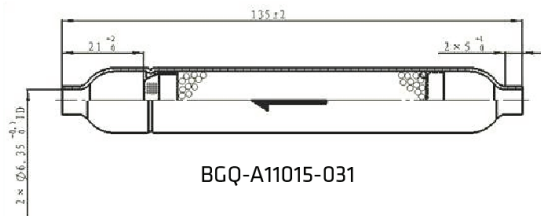
## TECHNICAL PARAMETERS AND DIMENSIONS

Model	Product number	Molec. Sieve weight (g)	Molecular Sieve	L (mm)	D (mm)	Inlet connection (mm) / type		Outlet connection (mm) / type		Refrigerant
BGQ-A11015-031	BGQ28001	15	XH-11	135	17,5	6,35	ODF	6,35	ODF	R134a, R600a, R404A, R407C, R410A
BGQ-A11020-011	BGQ28002	20	XH-11	127	25,4	6,5	ODF	6,35	ODM	R134a, R600a, R404A, R407C, R410A
BGQ-A11030-090	BGQ28003	30	XH-9	155	23,6	9,52	ODF	9,52	ODM	R134a, R600a

**BGQ SERIES**  
**Copper Filter Drier**



**TECHNICAL PARAMETERS AND DIMENSIONS**





# CHILLING IDEAS WORLDWIDE



**SANHUA** INTERNATIONAL EUROPE  
[info@sanhuaeurope.com](mailto:info@sanhuaeurope.com)