

# Standard Product

QUICK  
SELECTION

**AIR  
CONDITIONING**

**COMMERCIAL  
REFRIGERATION**

**HEAT PUMP**

# 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.

*CHILLING*  
*ideas worldwide*



# SUMMARY

**4 WAY REVERSING VALVE** SHF series

**PRESSURE SENSOR** YCQB series

**PRESSURE SENSOR** YCQC series

**ELECTRONIC EXPANSION VALVE** DPF-T/S series

**ELECTRONIC EXPANSION VALVE** VPF series

**SOLENOID VALVE** MDF series

**SOLENOID VALVE** FDF N/C series

**SOLENOID VALVE** FDF N/O series

**SOLENOID VALVE** HDF series

**THERMOSTATIC EXPANSION VALVE** RFKH series

**THERMOSTATIC EXPANSION VALVE** RFGB series

**THERMOSTATIC EXPANSION VALVE** RFGD series

**BALL VALVE** SBV series

**BALL VALVE** CBV 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

**FILTER DRIER WITH REPLACEABLE CORE** HTG series

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



DECLARATION OF CONFORMITY:  
Pressure Equipment Directive 2014/68/EU

# 4 Way Reversing Valve

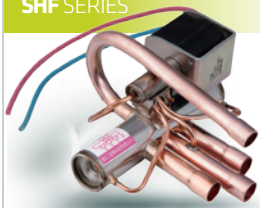
**REFRIGERANT**  
R22, R134a, R404A,  
R407C, R410A, R507A

**LARGE TEMPERATURE SERVICE RANGE**  
-30°C to +135°C

**OPD MAX**  
40 bar

**PS**  
45 bar

## SHF SERIES



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.

## CAPACITY SELECTION TABLE

Valve Model	Product number	Order number	Nominal Cooling Capacity (condition 2)							
			R407C		R410A		R134a		R404A/R507A	
			ΔP: 0,1 bar	ΔP: 0,2 bar	ΔP: 0,1 bar	ΔP: 0,2 bar	ΔP: 0,1 bar	ΔP: 0,2 bar	ΔP: 0,1 bar	ΔP: 0,2 bar
			[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]
SHF(L)-3H-12U-51	SHF-19007	10180944702	3,0	4,3	3,6	5,0	2,4	3,4	2,4	3,4
SHF(L)-4H-23U-51	SHF-19008	10180944902	3,2	4,6	3,8	5,4	2,6	3,7	2,6	3,7
SHF(L)-7H-34U-51	SHF-19020	10180945302	5,9	8,3	6,9	9,7	4,7	6,6	4,7	6,6
SHF(L)-7H-34-51		10180944002	5,9	8,3	6,9	9,7	4,7	6,6	4,7	6,6
SHF(L)-7H-35-51	SHF-19011	10180945002	5,9	8,3	6,9	9,7	4,7	6,6	4,7	6,6
SHF(L)-11H-34U-51		10180947302	9,1	12,9	10,7	15,1	7,3	10,3	7,3	10,3
SHF(L)-11H-35U-51	SHF-19013	10180942902	9,1	12,9	10,7	15,1	7,3	10,3	7,3	10,3
SHF(L)-11H-45D1-51	SHF-19014	10180943002	9,1	12,9	10,7	15,1	7,3	10,3	7,3	10,3
SHF(L)-11H-46D1-51	SHF-19015	10180944602	9,1	12,9	10,7	15,1	7,3	10,3	7,3	10,3
SHF-14A-46	SHF-50033	10325030102	13,4	18,9	15,7	22,2	10,7	15,1	10,7	15,1
SHF-20D-46-02	SHF-50022	10325020102	19,3	27,3	22,5	31,9	15,4	21,7	15,4	21,7
SHF-20D-47-02	SHF-50041	10325030302	20,1	28,4	23,5	33,2	16,0	22,7	16,0	22,6
SHF-20D-57-02	SHF-50042	10325032902	20,1	28,4	23,5	33,2	16,0	22,7	16,0	22,6
SHF-20D-67-02	SHF-50043	10325039802	20,1	28,4	23,5	33,2	16,0	22,7	16,0	22,6
SHF-35B-47-04	SHF-50044	10325033602	29,8	42,2	34,9	49,3	23,8	33,7	23,8	33,6
SHF-35B-57-04	SHF-50045	10325035702	29,8	42,2	34,9	49,3	23,8	33,7	23,8	33,6
SHF-35B-59-04	SHF-50046	10325039902	29,8	42,2	34,9	49,3	23,8	33,7	23,8	33,6
SHF-35B-67-04	SHF-50027	10325031002	29,8	42,2	34,9	49,3	23,8	33,7	23,8	33,6
SHF-35B-69-04	SHF-50047	10325035802	29,8	42,2	34,9	49,3	23,8	33,7	23,8	33,6
SHF-35B-79-04	SHF-50048	10325033002	29,8	42,2	34,9	49,3	23,8	33,7	23,8	33,6
SHF-50A-79	SHF-50038	10325030002	37,1	52,5	43,4	61,4	29,6	41,9	29,6	41,8
SHF-50-911D2	SHF-50016	10325011602	37,5	53,1	43,9	62,1	29,9	42,4	29,9	42,3
SHF(L)-70-810	SHF-50017	10325030202	57,8	81,8	67,6	95,7	46,1	65,2	46,1	65,2
SHF(L)-70-810-01	SHF-50024	10325033102	57,8	81,8	67,6	95,7	46,1	65,2	46,1	65,2
SHF(L)-70-911	SHF-50049	10325038302	57,8	81,8	67,6	95,7	46,1	65,2	46,1	65,2
SHF(L)-70-911-01	SHF-50049	10325038302	57,8	81,8	67,6	95,7	46,1	65,2	46,1	65,2
SHF(L)-70-913-05	SHF-50052	10325039502	57,8	81,8	67,6	95,7	46,1	65,2	46,1	65,2
SHF(L)-70-913-03	SHF-50051	10325039702	57,8	81,8	67,6	95,7	46,1	65,2	46,1	65,2
SHF(L)-100-911	SHF-50053	10325037902	82,2	116,2	96,1	136,0	65,6	92,7	65,5	92,6
SHF(L)-100-911-01	SHF-50054	10325038002	82,2	116,2	96,1	136,0	65,6	92,7	65,5	92,6
SHF(L)-100-913	SHF-50055	10325033702	82,2	116,2	96,1	136,0	65,6	92,7	65,5	92,6
SHF(L)-100-913-01	SHF-50056	10325034702	82,2	116,2	96,1	136,0	65,6	92,7	65,5	92,6
SHF(L)-100-1012	SHF-50018	10325027102	82,2	116,2	96,1	136,0	65,6	92,7	65,5	92,6
SHF(L)-100-1012-01	SHF-50025	10325033202	82,2	116,2	96,1	136,0	65,6	92,7	65,5	92,6
SHF(L)-100-1013	SHF-50057	10325035502	82,2	116,2	96,1	136,0	65,6	92,7	65,5	92,6
SHF(L)-100-1013-01	SHF-50058	10325038902	82,2	116,2	96,1	136,0	65,6	92,7	65,5	92,6
SHF(L)-140-1113	SHF-50059	10325038102	118,5	167,5	138,6	196,0	94,5	133,7	94,4	133,5
SHF(L)-140-1213	SHF-50060	10325038602	118,5	167,5	138,6	196,0	94,5	133,7	94,4	133,5
SHF(L)-140-1214	SHF-50019	10180940402	118,5	167,5	138,6	196,0	94,5	133,7	94,4	133,5
SHF(L)-140-1313	SHF-50061	10325034102	118,5	167,5	138,6	196,0	94,5	133,7	94,4	133,5
SHF(L)-175-1217	SHF-50020	10325030402	143,0	202,2	167,3	236,7	114,1	161,4	114,0	161,2
SHF(L)-175-1317	SHF-50062	10325034002	143,0	202,2	167,3	236,7	114,1	161,4	114,0	161,2
SHF(L)-210-1321	SHF-50021	10325030502	171,2	242,1	200,3	283,3	136,6	193,2	136,5	193,0
SHF(L)-350-1721	SHF-50031	10325043302	280,7	397,0	328,5	464,6	224,1	316,9	223,8	316,4
SHF(L)-420-2125	SHF-50032	10325043602	359,0	507,8	420,1	594,2	286,5	405,2	286,2	404,7

## COIL

Coil Model <sup>1)</sup>	Winding Code	Product Number	Electrical Function / Connection Type	Cable Length	Power Supply	Rated Voltage
				[mm]	[V]	[V]
SQ-A25 22G-00 0001	SHF-4-10L3	10805029102	Lead Wires	500	AC	220-240
SQ-A25 200-00 0001	SHF-4-10L2	10805027002	Lead Wires	500	AC	200
SQ-A25 100-00 0001	SHF-4-10L1	10805023602	Lead Wires	500	AC	100
SQ-A25 11A-00 0001	SHF-4-10L4	10805150302	Lead Wires	500	AC	110-120
SQ-A25 024-00 0001	SHF-4-10L5	10805227602	Lead Wires	500	AC	24
SQ-A25 26H-00 0001	SHF-4-10L6	10805231902	Lead Wires	500	AC	265-277
SQ-A25 22G-00 0870	SHF-4-10L3	10805240702	Lead Wires	1500	AC	220-240
SQ-A25 11A-00 0840	SHF-4-10L4	10805240802	Lead Wires	1500	AC	110-120
SQ-A25 024-00 0161	SHF-4-10L5	10805023002	Lead Wires	1500	AC	24
SQ-A47 22G-00 0001	SHF-4-10FA5	10805263402	Spade (Faston) <sup>3)</sup>	-	AC	220-240
SQ-A47 220-00 0001	SHF-4-10FA1	10805273402	Spade (Faston) <sup>3)</sup>	-	AC	220
SQ-A47 11B-00 0001	SHF-4-10FA2	10805273302	Spade (Faston) <sup>3)</sup>	-	AC	120
SQ-A47 10A-00 0001	SHF-4-10FA3	10805268702	Spade (Faston) <sup>3)</sup>	-	AC	100-110
SQ-A47 024-00 0001	SHF-4-10FA4	10805263302	Spade (Faston) <sup>3)</sup>	-	AC	24
SQ-A47 26H-00 0001	SHF-4-10FA6	10805273502	Spade (Faston) <sup>3)</sup>	-	AC	265-277
SQ-D44 012-00 0001	SHF-4-10FA8	10805231802	Spade (Faston) <sup>3)</sup>	-	DC	12
SQ-D44 024-00 0001	SHF-4-10FA9	10805070102	Spade (Faston) <sup>3)</sup>	-	DC	24
SQ-A27 100-00 0001	-	10805063202	Bi-stable/Lead W.	500	AC	100
SQ-A27 200-00 0001	-	10805063802	Bi-stable/Lead W.	500	AC	200
SQ-A27 20K-00 0001	-	10805222902	Bi-stable/Lead W.	500	AC	220-240
SQ-D27 012-00 0001	-	10805069302	Bi-stable/Lead W.	500	DC	12

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

Capacity under other condition available on our website





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

**ADVANCED**  
Technology & Solutions

- ✓ Improves efficiency by **5%**
- ✓ SHF series 1kW to 420 kW
- ✓ Widest range in the market with Single Body Design



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



## Pressure Sensor

### YCQB SERIES



#### REFRIGERANT

R22, R134a, R404A,  
R407C, R410A,  
R507A

#### MEDIUM TEMPERATURE

TS MIN./MAX.:  
-30°C / +120°C  
(models with 2% accuracy)

#### MEDIUM TEMPERATURE

TS MIN./MAX.:  
-40°C / +120°C  
(models with 0.8% accuracy)\*

#### AMBIENT

TEMPERATURE  
MIN./MAX.:  
-30°C / +80°C



DECLARATION OF  
CONFORMITY:  
Pressure Equipment  
Directive 2014/68/EU

Pressure sensors are widely used in Air Conditioning, Refrigeration and Heat Pump system. Using a 5 V excitation input these sensors provide a 0.5-3.5 V or 0.5-4.5 V signal output proportional to the pressure of the medium. This device requires no end user amplification. Pressure sensors permit to control and guarantee the system working under safe and stability condition.

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

### GENERAL CHARACTERISTICS

Model Name	Order number	Mechanische Anschlüsse			Electrical connection	Cable Length [mm]	Pressure Range (0 to pr) [Mpa]	Output (VA0 to VApr) [V]	Maximum Accuracy
		Type	Pipe Size [inch]	Thread size					
YCQB02H01	10185004702	Solder	1/4"	-	Lead Wires	2000	0 bis 2	0,5 bis 3,5 DC	± 2,0 % F.S.
YCQB05H01	10185004802	Solder	1/4"	-	Lead Wires	2000	0 bis 5	0,5 bis 3,5 DC	± 2,0 % F.S.
YCQB02L01	10185004902	Thread	SAE - 1/4"	7/16-20UNF	Lead Wires	2000	0 bis 2	0,5 bis 4,5 DC	± 2,0 % F.S.
YCQB05L01	10185007002	Thread	SAE - 1/4"	7/16-20UNF	Lead Wires	2000	0 bis 4,6	0,5 bis 4,5 DC	± 2,0 % F.S.
YCQB02H01-01	10185001502	Solder	1/4"	-	Lead Wires	2000	0 bis 2	0,5 bis 3,5 DC	± 0,8 % F.S.
YCQB02H18-1	10185015402	Solder	1/4"	-	Lead Wires	4900	0 bis 2	0,5 bis 3,5 DC	± 0,8 % F.S.
YCQB02L1-01	10185001402	Thread	SAE - 1/4"	7/16-20UNF	Lead Wires	2000	0 bis 2	0,5 bis 4,5 DC	± 0,8 % F.S.
YCQB02L12-1	10185015502	Thread	SAE - 1/4"	7/16-20UNF	Lead Wires	2000	0 bis 2	0,5 bis 3,5 DC	± 0,8 % F.S.
YCQB02L28-1	10185015602	Thread	SAE - 1/4"	7/16-20UNF	Lead Wires	4900	0 bis 2	0,5 bis 3,5 DC	± 0,8 % F.S.
YCQB02H50	10185004502	Solder	1/4"	-	Packard	-	0 bis 1,38	0,5 bis 4,5 DC	± 2,0 % F.S.
YCQB04H50	10185004602	Solder	1/4"	-	Packard	-	0 bis 3,45	0,5 bis 4,5 DC	± 2,0 % F.S.
YCQB01L50	10185015702	Thread	SAE - 1/4"	7/16-20UNF	Packard	-	0 bis 0,93	0,5 bis 4,5 DC	± 2,0 % F.S.
YCQB02L50	10185004002	Thread	SAE - 1/4"	7/16-20UNF	Packard	-	0 bis 1,38	0,5 bis 4,5 DC	± 1,0 % F.S.
YCQB02L51	10185004102	Thread	SAE - 1/4"	7/16-20UNF	Packard	-	0 bis 1,72	0,5 bis 4,5 DC	± 1,0 % F.S.
YCQB04L50	10185004202	Thread	SAE - 1/4"	7/16-20UNF	Packard	-	0 bis 3,45	0,5 bis 4,5 DC	± 1,0 % F.S.
YCQB05L50	10185004302	Thread	SAE - 1/4"	7/16-20UNF	Packard	-	0 bis 4,6	0,5 bis 4,5 DC	± 1,0 % F.S.
YCQB05L53	10185013402	Thread	SAE - 1/4"	7/16-20UNF	Packard	-	0 bis 4,5	0,5 bis 4,5 DC	± 2,0 % F.S.
YCQB02L100	10185009102	Thread	SAE - 1/4"	7/16-20UNF	Molex	-	0 bis 2	0,5 bis 4,5 DC	± 2,0 % F.S.
YCQB05L100	10185009201	Thread	SAE - 1/4"	7/16-20UNF	Molex	-	0 bis 4,6	0,5 bis 4,5 DC	± 1,0 % F.S.

#### Note:

1) Signal span:  $V_{FS}=FS$  (Full Scale) =  $V_A(p) - V_{A0}$

2) Accuracy measured within the temperature ranges:

- YCQB02xxx: from -30°C to +85°C

- YCQB05xxx: from -30°C to +120°C

Included Nonlinearity (L) and pressure hysteresis. The Nonlinearity is the deviation of the real sensor characteristic  $V_A = f(p)$  from the ideal straight line.

It can be approximated by a polynomial of second order, with the maximum at  $p_x = p_r / 2$ .

The equation to calculate the nonlinearity is:  $L = (V_A(p_x) - V_{A0}) / (V_A(p_r) - V_{A0}) - p_x / p_r$

3) Response Time: delay between a pressure change (10 to 90%  $p_r$ ) and the corresponding signal output change (10 to 90% FS)

4) Insulation Resistance measured with rated voltage: 500 V DC

### YCQC SERIES



Pressure sensors are widely used in Air Conditioning, Refrigeration and Heat Pump system. YCQC pressure sensor uses a DC 10-30V excitation input to provide a 4-20mA signal output proportional to the pressure of the medium. This device requires no end user amplification. Pressure sensors permit to control and guarantee the system working under safe and stability condition.

### GENERAL CHARACTERISTICS

Model Name	Order number	Mechanical connection			Electrical connection	Pressure Range (0 to pr) [Mpa]	Maximum Accuracy
		Type	Pipe Size [inch]	Thread size			
YCQC02L04	10185009902	Thread	G3/8A	-	Hirschmann	-0,1 bis 1,2	± 0,5 % F.S.
YCQC02L05	10185009802	Thread	G3/8A	-	Hirschmann	-0,1 bis 2,0	± 0,5 % F.S.
YCQC03L04	10185011002	Thread	SAE - 1/4"	7/16-20UNF-2B	Hirschmann	0 bis 3,0	± 0,5 % F.S.
YCQC03L05	10185009302	Thread	SAE - 1/4"	7/16-20UNF-2B	Packard	0 bis 3,0	± 0,5 % F.S.
YCQC03L06	10185009402	Thread	SAE - 1/4"	7/16-20UNF-2A	Packard	0 bis 3,0	± 0,5 % F.S.
YCQC01L13 <sup>®</sup>	10185015202	Thread	SAE - 1/4"	7/16-20UNF-2B	Packard	-0,05 bis 0,7	± 0,8 % F.S.
YCQC03L11 <sup>®</sup>	10185014402	Thread	SAE - 1/4"	7/16-20UNF-2B	Packard	0 bis 3,0	± 0,8 % F.S.
YCQC05L09 <sup>®</sup>	10185015302	Thread	SAE - 1/4"	7/16-20UNF-2B	Packard	0 bis 4,48	± 0,8 % F.S.

Note: 1) Signal span:  $V_{FS}=FS$  (Full Scale) =  $V_A(p) - V_{A0}$

2) Insulation Resistance measured with rated voltage: 500 V DC

3) Models especially designed for distribution market

Every 2<sup>nd</sup> home refrigerator  
in Europe is equipped  
with a **SANHUA**  
solenoid valve



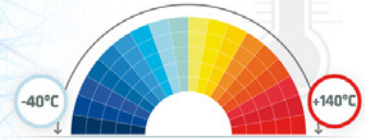
YEARLY SANHUA SUPPLIES OVER  
20 MILLION SOLENOID VALVES TO THE  
REFRIGERATION, HVAC AND HOME  
APPLIANCES INDUSTRIES WORLDWIDE

**ADVANCED**  
Technology & Solutions

0,16 kv



25 kv



## Electronic Expansion Valve

**REFRIGERANT**  
R22, R134a, R404A,  
R407C, R410A, R507A

**LARGE TEMPERATURE SERVICE RANGE**  
-30°C to +70°C (duty cycle below 50%)

**PS**  
45 bar

**COIL PROTECTION**  
IP 66. Insulation Class E



DECLARATION OF CONFORMITY:  
Pressure Equipment  
Directive 2014/68/EU

### DPF-T/S SERIES



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.

CE RoHS

#### COIL

Valve Model	Coil Model	Coil Product Number	Unique code for multi package
DPF(T01)1.3C-07 bis DPF(TS1)3.2C-01	PQ-M10 012-000277	DPF-58013	10810069002
DPF(S03)4.0C-01 bis DPF(S03)6.5C-02	PQ-M03 012-000001	DPF-58002	10810011602

Valve Model	Product number	Part Number	Nominal Cooling Capacity (kW)					Kv m <sup>3</sup> /h
			R22	R134a	R407C	R404A R507A	R410A	
DPF(T01)1.3C-07	DPF-09001	10130365902	4,7	3,6	4,8	3,3	5,5	0,05
DPF(T01)1.65C-05	DPF-09002	10130316802	7,8	6,0	8,0	5,5	9,1	0,08
DPF(T01)1.8C-08	DPF-09003	10130364802	9,4	7,2	9,7	6,6	11	0,1
DPF(T01)2.0C-03	DPF-09004	10130365702	11,5	8,9	11,8	8,1	13,5	0,16
DPF(T01)2.2C-01	DPF-09005	10130320702	15	11,6	15,5	10,5	17,6	0,2
DPF(T01)2.4C-01	DPF-09006	10130361302	20,7	15,9	21,3	14,5	24,2	0,23
DPF(TS1)3.0C-01	DPF-09007	10130366102	30,8	23,7	31,7	21,6	36	0,39
DPF(TS1)3.2C-01	DPF-09008	10130366002	36,3	28	37,4	25,4	42,5	0,43
DPF(S03)4.0C-01	DPF-09010	10130355702	42	32,3	42	29,4	50,4	0,5
DPF(S03)4.5C-01	DPF-09011	10130035502	53	40,4	52,5	36,8	63	0,7
DPF(S03)5.5C-01	DPF-09012	10130355802	70	53,9	70	49,0	84	0,9
DPF(S03)6.5C-02	DPF-09013	10130355902	105	80,9	105	73,5	126	1,1

## Electronic Expansion Valve

**REFRIGERANT**  
R22, R134a, R404A,  
R407A, R407C, R407F,  
R410A, R507A ...

**COOLING CAPACITY:**  
112 to 892 kW  
(R134a nominal capacity)

**UP TO 3800 STEPS (FULL STROKE):**  
Valve starts opening with 110 steps (VPF25) and 165 steps (VPF50...250)

**MEDIUM TEMPERATURE TS MIN./MAX.:**  
-40°C / +70°C  
(duty cycle rate below 50%)



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### VPF SERIES



VPF series electronic expansion valves are designed for commercial and industrial applications. Typical VPF applications are air conditioning and refrigeration systems or heat pumps. The valve controls the 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.

### COOLING CAPACITIES

Model	Steps Completely Open	Nominal Cooling Capacity <sup>1)</sup> (kW)						
		R22	R134a	R407A <sup>2)</sup>	R407C <sup>2)</sup>	R407F <sup>2)</sup>	R404A R507A	R410A
VPF 25	2600	143	112	144	153	163	105	171
VPF 50	2600	287	226	289	307	328	210	343
VPF 100	3500	406	319	409	435	463	298	485
VPF 150	3800	730	574	736	782	833	535	872
VPF 250	3800	1133	892	1143	1215	1294	832	1354

Model	Steps Completely Open	Nominal Cooling Capacity <sup>1)</sup> (USRT)						
		R22	R134a	R407A <sup>2)</sup>	R407C <sup>2)</sup>	R407F <sup>2)</sup>	R404A R507A	R410A
VPF 25	2600	41	32	41	44	46	30	49
VPF 50	2600	82	64	82	87	93	60	97
VPF 100	3500	115	91	116	124	132	85	138
VPF 150	3800	207	163	209	222	237	152	248
VPF 250	3800	322	254	325	345	368	236	385

**Note:**

- Nominal working conditions: Condensing temperature 38°C; evaporating temperature +4.4°C; liquid temperature 37°C
- Data based on dew point conditions

# Solenoid Valve

**REFRIGERANT**  
R22, R134a, R404A,  
R407C, R410A, R507A

**LARGE TEMPERATURE SERVICE RANGE**  
-40°C to +140°C

**PS**  
45 bar

**COIL PROTECTION**  
IP65 - DIN Plug



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## MDF SERIES



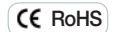
MDF series solenoid valves are direct operated or pilot operated solenoid valves, mainly used in refrigerant control of various devices such as refrigerating and freezing systems, air conditioners and heat pumps.

Model Valve Body	Part number	Order number	Solder Connection	Kv	Actuation
			[mm]	(m <sup>3</sup> /h)	
MDF-A03-2H003	MDF-08020	10125006502	6	0,16	Direct
MDF-A03-3H005	MDF-08021	10125003802	6	0,23	Direct
MDF-A03-3H007	MDF-08022	10125003402	10	0,23	Direct
MDF-A03-6H005	MDF-08023	10125004102	10	0,8	Pilot <sup>1)</sup>
MDF-A03-6H007	MDF-08024	10125006702	12	0,8	Pilot <sup>1)</sup>
MDF-A03-10H005	MDF-08025	10125003502	12	1,9	Pilot <sup>1)</sup>
MDF-A03-10H005	MDF-08007	10125006302	16	1,9	Pilot <sup>1)</sup>
MDF-A03-15H005	MDF-08027	10125003702	16	2,3	Pilot <sup>1)</sup>
MDF-A03-15H003	MDF-08009	10125005002	22	2,3	Pilot <sup>1)</sup>
MDF-A03-20H001	MDF-08010	10125011702	22	5	Pilot <sup>1)</sup>
MDF-A03-22H001	MDF-08030	10125011802	28	5	Pilot <sup>1)</sup>
MDF-A03-20H007	MDF-08012	10125005702	22	5,9	Pilot <sup>1)</sup>
MDF-A03-22H011	MDF-08031	10125000302	28	5,9	Pilot <sup>1)</sup>
MDF-B03-25H005	MDF-08013	10125007002	35	5,9	Pilot <sup>1)</sup>
MDF-A03-22H003	MDF-08033	10125005102	28	10	Pilot (P) <sup>2)</sup>
MDF-B03-25H004	MDF-08015	10125006802	35	10	Pilot (P) <sup>2)</sup>
MDF-B03-32H001	MDF-08016	10125009102	35	15	Pilot (P) <sup>2)</sup>
MDF-B03-32H003	MDF-08036	10125007102	42	15	Pilot (P) <sup>2)</sup>
MDF-B03-40H003	MDF-08037	10125007602	42	25	Pilot (P) <sup>2)</sup>
MDF-B03-40H004	MDF-08019	10125007702	54	25	Pilot (P) <sup>2)</sup>

Model Valve Body	Part number	Order number	Solder Connection	Kv	Actuation
			[inch]	(m <sup>3</sup> /h)	
MDF-A03-2H001	MDF-08001	10125011202	1/4	0,16	Direct
MDF-A03-3H001	MDF-08002	10125011302	1/4	0,23	Direct
MDF-A03-3H003	MDF-08003	10125003602	3/8	0,23	Direct
MDF-A03-6H001	MDF-08004	10125011402	3/8	0,8	Pilot
MDF-A03-6H003	MDF-08005	10125004202	1/2	0,8	Pilot
MDF-A03-10H001	MDF-08006	10125011502	1/2	1,9	Pilot
MDF-A03-10H003	MDF-08007	10125006302	5/8	1,9	Pilot
MDF-A03-15H005	MDF-08027	10125003702	5/8	2,3	Pilot
MDF-A03-15H003	MDF-08009	10125005002	7/8	2,3	Pilot
MDF-A03-20H001	MDF-08010	10125011702	7/8	5	Pilot
MDF-A03-22H001	MDF-08011	10125011802	1-1/8	5	Pilot
MDF-A03-20H003	MDF-08012	10125005602	7/8	5,9	Pilot
MDF-A03-22H009	MDF-08048	10125006202	1-1/8	5,9	Pilot
MDF-B03-25H003	MDF-08013	10125006902	1-3/8	5,9	Pilot
MDF-A03-22H003	MDF-08014	10125005102	1-1/8	10	Pilot
MDF-B03-25H004	MDF-08015	10125006802	1-3/8	10	Pilot (P)
MDF-B03-32H001	MDF-08016	10125009102	1-3/8	15	Pilot (P)
MDF-B03-32H002	MDF-08017	10125007502	1-5/8	15	Pilot (P)
MDF-B03-40H002	MDF-08018	10125004302	1-5/8	25	Pilot (P)
MDF-B03-40H004	MDF-08019	10125007702	2-1/8	25	Pilot (P)

**Note:** 1) Membrane operated  
2) Piston operated



## TECNICAL PARAMETERS

Technical parameters of Coil

Model Valve Body	Part number	Order number	Thread Connection	Kv	Actuation
			[inch]	(m <sup>3</sup> /h)	
MDF-A03-2L001	MDF-08039	10125000102	1/4	0,16	Direct
MDF-A03-3L001	MDF-08040	10125009202	1/4	0,23	Direct
MDF-A03-3L003	MDF-08041	10125004402	3/8	0,23	Direct
MDF-A03-6L001	MDF-08042	10125009302	3/8	0,8	Pilot
MDF-A03-6L003	MDF-08043	10125004502	1/2	0,8	Pilot
MDF-A03-10L003	MDF-08044	10125005402	1/2	1,9	Pilot
MDF-A03-10L001	MDF-08045	10125009402	5/8	1,9	Pilot
MDF-A03-15L001	MDF-08046	10125009502	5/8	2,6	Pilot
MDF-A03-15L003	MDF-08047	10125004802	7/8	2,3	Pilot

Model Coil	Part Number	Order number	Rated Voltage [V]	Power [W]
MQ-A03024-000001	MDF-60001	10820009902	24 AC	10,5W (50Hz) 8,5W (60Hz)
MQ-A0311A-000001	MDF-60002	10820010102	110 to 120 AC	12W (50Hz) 10W (60Hz)
MQ-A0322G-000001	MDF-60003	10820010002	220 to 240 AC	12W (50Hz) 10W (60Hz)
MQ-D03024-000002	MDF-60004	10820001002	24 DC	15W



## TECNICAL PARAMETERS

Model Coil <sup>1)</sup>	Part Number <sup>2)</sup>	Rated Voltage [V]	Supply	Power [W]	Frequ. [Hz]	Voltage Tolerance	Insulation Class	Protection class	Outer Cable Ø [mm]	Cable core [mm <sup>2</sup> ]
MQ-A11 024-000001	10820009402	24	AC	9,5 (50Hz) 8,5 (60Hz)	50/60	-15% to +10%	F	IP67	7,1 to 9,7	0,75 to 2,5
MQ-A11 11A-000001	10820009202	110 to 120		11,5 (50Hz) 10,0 (60Hz)						
MQ-A11 22G-000001	10820009002	220 to 240		11,0 (50Hz) 9,5 (60Hz)						

**Note:** 1) Applicable to MDF-A03 and MDF-B03 valve bodies  
2) Extent of delivery: coil body, junction box, gasket, 4x fixing screws, terminal strip and jam screw

# Solenoid Valve

REFRIGERANT  
R22, R134a, R407C,  
R404A, R410A, R507A

LARGE TEMPERATURE  
SERVICE RANGE  
-30°C to +120°C

PS  
45 bar



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## FDf N/C SERIES



**Normally Closed.** 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.

FDf (N/C)				
Valve Model	Part Number	Order number	Kv	Actuation
			(m³/h)	
FDF2A94	FDF-06001	10120019802	0,08	Direct
FDF2.5A08	FDF-06002	10120021102	0,21	Pilot
FDF3A08	FDF-06003	10120019302	0,26	Pilot
FDF4A10	FDF-06004	10120006502	0,30	Pilot
FDF-06004	FDF-06005	10120018702	0,56	Pilot
FDF8A21	FDF-06006	10120020902	1,29	Pilot
FDF11A16	FDF-06007	10120020302	2,40	Pilot
FDF13A12	FDF-06008	10120020502	3,44	Pilot
FDf (N/O)				
Valve Model	Part Number	Order number	Kv	Actuation
			(m³/h)	
FDF2AK01	FDF-06009	10120006702	0,05	Direct
FDF2AK08	FDF-06010	10120009702	0,08	Direct

## FDf N/O SERIES



**Normally Open.** 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.

## COIL

Valve Model	Part Number	Order number	Rated Voltage [V]	Power [W]
FQ-A05024-000709	FQA-55001	10800072302	24 AC	5W (50Hz) 4,5W (60Hz)
FQ-A05120-001098	FQA-55002	10800062002	110 to 120 AC	5W (50Hz) 4,5W (60Hz)
FQ-A0522G-001022	FQA-55003	10800057302	220 to 240 AC	5W (50Hz) 4,5W (60Hz)
FQ-A0522G-001066	FQA-55007 *	10800060102	220 to 240 AC	6,5W (50Hz) 5W (60Hz)

\* only for FDF (NO) valve

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# Solenoid Valve

**REFRIGERANT**  
R22, R134a, R407C, R404A,  
R410A, R507C

**MEDIUM TEMPERATURE TS**  
MIN./MAX.:  
-40°C/+140°C

**CERTIFICATIONS:**  
Declaration according  
to LVD and PED



## HDF SERIES

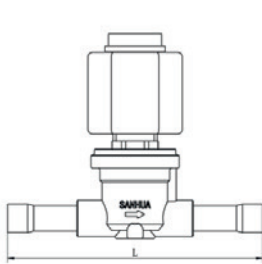


HDF series solenoid valves are piston type pilot operated solenoid valves, mainly used in refrigerant control of various devices such as refrigerating and freezing systems, air conditioners and heat pumps. The maximum admitted refrigerant temperature (equal to +140°C) permits to install HDF valves in gas injection or hot gas bypass lines such as in the compressor discharge line.

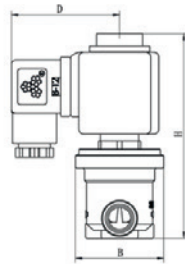
## DIMENSIONS

Model Valve body	Part Number	Order number <sup>1)</sup>	Solder Connection (ODF)		Kv [m <sup>3</sup> /h]	PED Category Group 2	Dimensions [mm]			
			[inch]	[mm]			L	B	D	H
HDF3H01	HDF-71001	10129000302	1/4"	-	0,3	3.3	118	33	54	95
HDF3H03	HDF-71002	10129000502	-	6	0,3	3.3	118	33	54	95
HDF3H02	HDF-71003	10129000402	3/8"	-	0,3	3.3	118	33	54	95
HDF3H05	HDF-71004	10129000602	-	10	0,3	3.3	118	33	54	95
HDF6H02	HDF-71005	10129000102	3/8"	-	0,8	3.3	118	33	54	95
HDF6H04	HDF-71006	10129000802	-	10	0,8	3.3	118	33	54	95
HDF6H03	HDF-71007	10129000702	1/2"	-	0,8	3.3	127	33	54	95
HDF6H07	HDF-71008	10129000202	-	12	0,8	3.3	127	33	54	95
HDF10H01	HDF-71009	10129003402	1/2"	-	1,9	3.3	127	44	54	102
HDF10H03	HDF-71010	10129000902	-	12	1,9	3.3	127	44	54	102
HDF10H02	HDF-71011	10129001702	5/8"	16	1,9	3.3	166	44	54	102
HDF15H01	HDF-71012	10129003502	5/8"	16	2,6	3.3	175	48	54	105
HDF15H02	HDF-71013	10129001002	7/8"	22	2,6	3.3	175	48	54	105
HDF20H01	HDF-71014	10129001102	7/8"	22	4,0	3.3	181	57	54	114
HDF20H02	HDF-71015	10129001202	1 1/8"	-	4,0	3.3	214	57	54	114
HDF20H03	HDF-71016	10129001302	-	28	4,0	3.3	214	57	54	114
HDF22H01	HDF-71017	10129003602	7/8"	22	5,7	3.3	190	58	54	114
HDF22H03	HDF-71018	10129001502	1 1/8"	-	5,7	3.3	214	58	54	114
HDF22H04	HDF-71019	10129001602	-	28	5,7	3.3	214	58	54	114
HDF22H02	HDF-71020	10129001402	1 3/8"	35	5,7	I	281	58	54	114

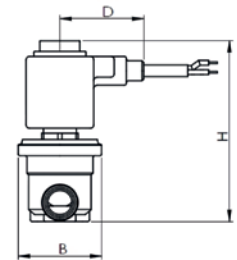
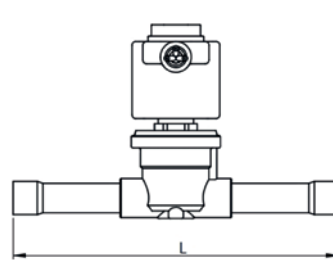
**Note:** 1) Extent of delivery: valve body without coil



Valve Body Solder Connection - with standard coils (DIN connector)



Valve Body Solder Connection - with a Lead wires coil



## TECHNICAL PARAMETERS OF COIL

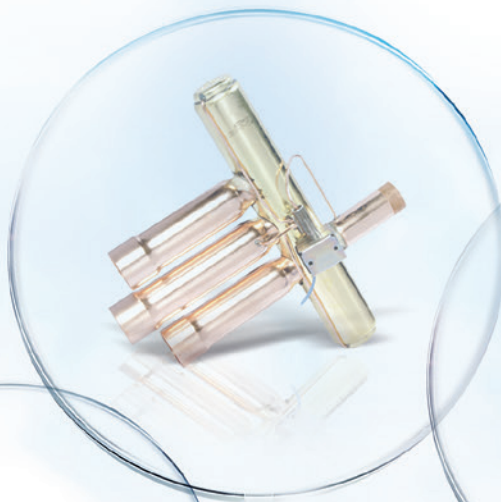
Standard coils with DIN connector (MQ-A03)

Model Coil <sup>1)</sup>	Part Number	Order number	Rated Voltage [V]	Supply	Power [W]	Frequency [Hz]	Voltage Tolerance	Insulation Class	Protection Class (w/plug)	Wiring type
MQ-A03024-001001	MQ-A03 024-001001	10820006102	24	AC	8,5 (50Hz) 7,5 (60Hz)	50/60	-15% to +10%	F	IP65	DIN Stecker
MQ-A0311A-001001	MQ-A03 11A-001001	10820006302	110 to 120		8,5 (50Hz) 7,5 (60Hz)					
MQ-A0322G-001001	MQ-A03 22G-001001	10820005702	220 to 240		8,5 (50Hz) 7,5 (60Hz)					

**Note:** Extent of delivery: coil body, fastening screw for the coil body, DIN plug for electrical connection incl. gaskets

# Did you know?

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# Thermostatic Expansion Valve

## TECHNICAL PARAMETERS

Tab. A : Models with Range N : Temperature Range from -40°C to +10°C [ without MOP ]

### RFKH SERIES



#### REFRIGERANT

R22, R407C, R404A, R507, R134a, R404A, R410A, R407A, R407F, R448A, R449A, R452A

#### AMBIENT TEMPERATURE

MIN./MAX.: -35°C / +55°C

#### MEDIUM TEMPERATURE

TS MIN./MAX.: -40°C / +70°C

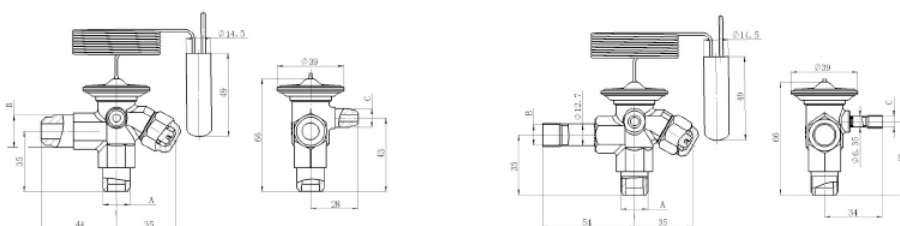
PS 4.6 MPa (46 bar)

CAPILLARY TUBE LENGTH 1,5 m

RFKH 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. Typical applications are refrigeration systems like freezers, ice makers, dehumidifiers as well as air conditioners and heat pumps at various evaporation temperature ranges.

Ref.	Model Valve Body	Part Number	Connection type		Inlet ØA		Outlet ØB		Ext. ØC	
			In / Out / Ext. Pressure Equal.	Flare	Flare	Solder	Flare	Solder	Solder	
				[inch]	[inch]	[mm]	[inch]	[inch]	[mm]	[mm]
R22	RFKH 01-6.0-22	10201002502	flare / flare	3/8	1/2	-	-	-	-	-
	RFKH01E-6.0-13	10201002402	flare / flare / flare		1/2	-	-	1/4	-	-
	RFKH01-6.0-26	10201002602	flare / solder		-	12	-	-	-	-
	RFKH01E-6.0-06	10201002102	flare / solder / solder		-	12	-	-	-	6
	RFKH01-6.0-07	10201002202	flare / solder		-	-	1/2	-	-	-
R407C	RFKH01E-6.0-08	10201002302	flare / solder / solder	3/8	-	-	1/2	-	1/4	-
	RFKH02-6.3-24	10201002902	flare / flare		1/2	-	-	-	-	-
	RFKH02E-6.3-20	10201002802	flare / flare / flare		1/2	-	-	1/4	-	-
	RFKH02-6.3-27	10201003002	flare / solder		-	12	-	-	-	-
	RFKH02E-6.3-28	10201003102	flare / solder / solder		-	12	-	-	-	6
R404A / R507A	RFKH02-6.3-32	10201003202	flare / solder	3/8	-	-	1/2	-	-	-
	RFKH02E-6.3-18	10201002702	flare / solder / solder		-	-	1/2	-	1/4	-
	RFKH03-4.8-21	10201003702	flare / flare		1/2	-	-	-	-	-
	RFKH03E-4.8-15	10201003802	flare / flare / flare		1/2	-	-	1/4	-	-
	RFKH03-4.8-03	10201003402	flare / solder		-	12	-	-	-	-
R134a	RFKH03E-4.8-02	10201003302	flare / solder / solder	3/8	-	12	-	-	-	6
	RFKH03-4.8-09	10201003502	flare / solder		-	-	1/2	-	-	-
	RFKH03E-4.8-10	10201003602	flare / solder / solder		-	-	1/2	-	1/4	-
	RFKH04-2.9-23	10201004102	flare / flare		1/2	-	-	-	-	-
	RFKH04E-2.9-19	10201004002	flare / flare / flare		1/2	-	-	1/4	-	-
R410A	RFKH04-2.9-29	10201004202	flare / solder	3/8	-	12	-	-	-	-
	RFKH04E-2.9-17	10201003902	flare / solder / solder		-	12	-	-	-	6
	RFKH04-2.9-30	10201004302	flare / solder		-	-	1/2	-	-	-
	RFKH04E-2.9-31	10201004402	flare / solder / solder		-	-	1/2	-	-	1/4
	RFKH05-7.6-66	10201005702	flare / flare		1/2	-	-	-	-	-
R407A / R407F	RFKH05E-7.6-33	10201005202	flare / flare / flare	3/8	1/2	-	-	1/4	-	-
	RFKH05-7.6-37	10201005602	flare / solder		-	12	-	-	-	-
	RFKH05E-7.6-36	10201005502	flare / solder / solder		-	12	-	-	-	6
	RFKH05-7.6-35	10201005402	flare / solder		-	-	1/2	-	-	-
	RFKH05E-7.6-34	10201005302	flare / solder / solder		-	-	1/2	-	-	1/4
R448A / R449A	RFKH07-6.0-43	10201004802	flare / flare	3/8	1/2	-	-	-	-	-
	RFKH07E-6.0-42	10201004702	flare / flare / flare		1/2	-	-	1/4	-	-
	RFKH07-6.0-44	10201004902	flare / solder		-	12	-	-	-	-
	RFKH07E-6.0-41	10201004602	flare / solder / solder		-	12	-	-	-	6
	RFKH07-6.0-45	10201005002	flare / solder		-	-	1/2	-	-	-
R452A	RFKH07E-6.0-46	10201005102	flare / solder / solder	3/8	-	-	1/2	-	-	1/4
	RFKH08-6.1-49	10201012802	flare / flare		1/2	-	-	-	-	-
	RFKH08E-6.1-48	10201012402	flare / flare / flare		1/2	-	-	1/4	-	-
	RFKH08-6.1-50	10201013302	flare / solder		-	12	-	-	-	-
	RFKH08E-6.1-47	10201012302	flare / solder / solder		-	12	-	-	-	6
R452A	RFKH08-6.1-51	10201012502	flare / solder	3/8	-	-	1/2	-	-	-
	RFKH08E-6.1-52	10201012602	flare / solder / solder		-	-	1/2	-	1/4	-
	RFKH11-4.5-55	10201013602	flare / flare		1/2	-	-	-	-	-
	RFKH11E-4.5-54	10201013502	flare / flare / flare		1/2	-	-	1/4	-	-
	RFKH11-4.5-56	10201013702	flare / solder		-	12	-	-	-	-
R452A	RFKH11E-4.5-53	10201013402	flare / solder / solder	3/8	-	12	-	-	-	6
	RFKH11-4.5-57	10201013802	flare / solder		-	-	1/2	-	-	-
	RFKH11E-4.5-58	10201013902	flare / solder / solder		-	-	1/2	-	1/4	-

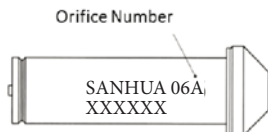
### DIMENSIONS



Valve Body - Connection Type: flare/flare/flare

Valve Body - Connection Type: flare/solder/solder

### ORIFICE



Valve Orifice Model	Part Number	Order number	Orifice Number	Nominal Capacity <sup>1)</sup> [ kW ]								
				R22	R407C	R404A R507A	R134a	R410A	R407A R407F	R448A	R449A	R452A
RFKH-023-0X	RFK-24097	10202001702	0X	1.0	1.0	0.7	0.69	1.3	1.0	1.1	1.0	0.8
RFKH-023-00	RFK-24098	10202001002	0	1.9	2.1	1.4	1.2	2.5	1.8	2.1	2.0	1.5
RFKH-023-01	RFK-24099	10202001102	1	3.8	4.0	2.8	2.1	5.0	3.7	4.0	4.0	3.0
RFKH-023-02	RFK-24100	10202001202	2	5.1	5.4	4.0	2.7	6.2	5.1	5.0	4.9	3.7
RFKH-023-03	RFK-24101	10202001302	3	8.6	9.2	6.8	4.4	11.2	8.6	8.9	8.8	6.7
RFKH-023-04	RFK-24102	10202001402	4	13.2	13.9	10.8	6.5	17.0	13.4	13.6	13.4	10.1
RFKH-023-05	RFK-24103	10202001502	5	18.1	18.5	14.1	8.6	21.3	17.6	17.0	16.8	12.7
RFKH-023-06	RFK-24104	10202001602	6	21.3	22.1	16.8	10.3	26.8	21.2	21.4	21.1	16.0

Note: 1) Nominal working conditions: Condensing temperature 38°C; evaporating temperature +4.4°C; liquid temperature 37°C

2) R407C data based on dew point conditions

### ACCESSORIES

#### SOLDER ADAPTERS FOR RFKH INLET A

Valve Orifice Model	Order number <sup>1)</sup>	SAE Flare Ø e	Lötanschluss Ø d
RFK-A04-038010	20200001602	3/8"	3/8"
RFK-A04-038011	20201002502		10mm
RFK-A04-038012	20201002602		1/4"
RFK-A04-038013	20201002702		6mm

Note: 1) Copper pipe and flare nut are in the extent of delivery

#### SOLDER ADAPTERS FOR RFKH EXTERNAL PRESSURE EQUALIZATION C

Valve Orifice Model	Part number	Order number <sup>1)</sup>	SAE Flare Ø e	Solder Connection Ø d
RFKA-038-03	RFK-24046	20201000502	1/4"	6mm
RFKA-038-04	RFK-24047	20201000602		1/4"

Note: 1) Copper pipe and flare nut are in the extent of delivery



# Thermostatic Expansion Valve

**REFRIGERANT**  
R22, R134a, R404A,  
R407C, R507A ...

**MEDIUM TEMPERATURE TS**  
MIN./MAX.:  
-40°C / +70°C

**MAX. OPERATING PRESSURE PS:**  
2,1 ... 3,5 MPa (21 ... 35 bar)



DECLARATION OF CONFORMITY:  
Pressure Equipment Directive 2014/68/EU

## RFGB SERIES



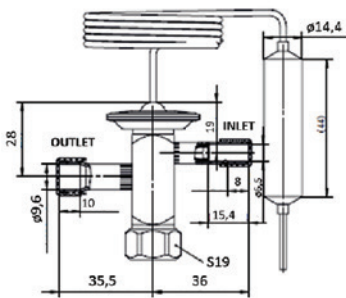
RFGB series thermostatic expansion valves are used to adjust mass flow of refrigerant into the evaporator while controlling the refrigerant's superheat at the outlet of the evaporator. They can be used for various refrigerants under all working conditions. Typical applications are refrigeration systems like commercial refrigerators and freezers, icemakers, dehumidifiers as well as air conditioners at various evaporation temperature.

### TECHNICAL DATA

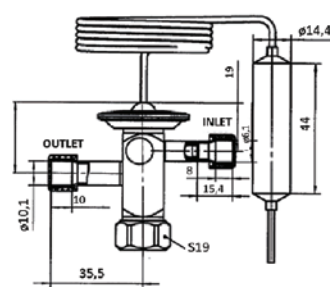
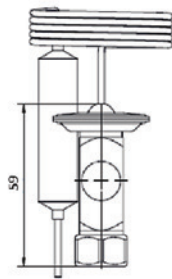
Refrigerant	Size	Model Name <sup>1)</sup>	Capacity		PS [ MPa ]
			[ USRT ]	[ kW ]	
R22	1	RFGB 01(E) -1	0,48	1,69	2,8
	2	RFGB 01(E) -2	0,83	2,92	
	3	RFGB 01(E) -3	1,43	5,03	
	4	RFGB 01(E) -4	2,04	7,17	
	5	RFGB 01(E) -5	2,39	8,41	
R407C <sup>3)</sup>	1	RFGB 02(E) -1	0,48	1,69	2,8
	2	RFGB 02(E) -2	0,84	2,95	
	3	RFGB 02(E) -3	1,44	5,06	
	4	RFGB 02(E) -4	2,05	7,21	
	5	RFGB 02(E) -5	2,39	8,41	
R404A / R507	1	RFGB 03(E) -1	0,34	1,20	3,5
	2	RFGB 03(E) -2	0,65	2,29	
	3	RFGB 03(E) -3	1,22	4,29	
	4	RFGB 03(E) -4	1,80	6,33	
	5	RFGB 03(E) -5	2,11	7,42	
R134a	1	RFGB 04(E) -1	0,30	1,06	2,1
	2	RFGB 04(E) -2	0,43	1,51	
	3	RFGB 04(E) -3	0,76	2,67	
	4	RFGB 04(E) -4	1,14	4,01	
	5	RFGB 04(E) -5	1,33	4,68	
R290	1	RFGB 06(E) -1	0,48	1,69	2,8
	2	RFGB 06(E) -2	0,83	2,92	
	3	RFGB 06(E) -3	1,43	5,03	
	4	RFGB 06(E) -4	2,04	7,17	
	5	RFGB 06(E) -5	2,39	8,41	

- Note:** 1) Nominal capacity valid for: - Version "S" in straight shape and version "A" in angle shape  
- Versions with metrical and imperial connections  
2) Nominal working conditions: Condensing temperature: 38°C; evaporating temperature +4,4°C; Liquid temperature 37°C  
3) R407C data based on dew point conditions  
4) Model Name in this table is referred to the first 4 positions of the model designation

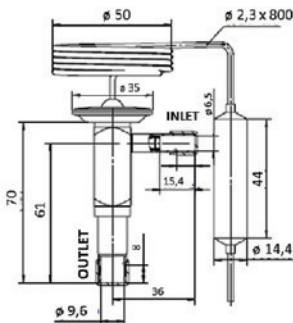
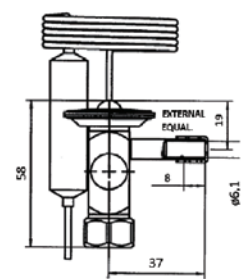
### DIMENSIONS



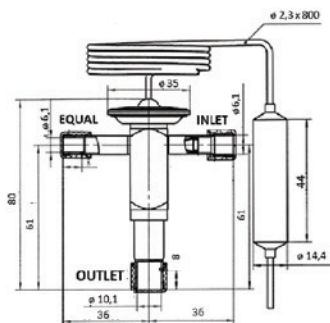
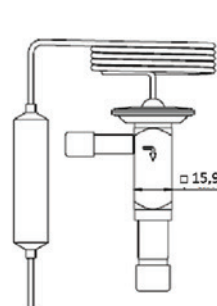
**Straight Shape with Internal Pressure Equalization**



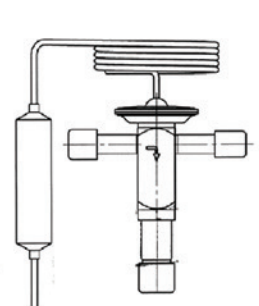
**Straight Shape with External Pressure Equalization**



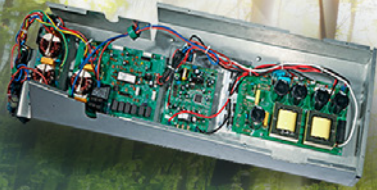
**Angle Shape with Internal Pressure Equalization**



**Angle Shape with External Pressure Equalization**



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- ✓ **Wide Range of voltage application**



## Thermostatic Expansion Valve

**REFRIGERANT**  
R22, R134a, R404A,  
R407C, R410A, R507

**LARGE TEMPERATURE  
SERVICE RANGE**  
-40°C to +70°C

**PS**  
45 bar



DECLARATION OF  
CONFORMITY:  
Pressure Equipment  
Directive 2014/68/EU

### RFGD SERIES



RFGD 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. Typical applications are refrigeration systems like commercial refrigerators and freezers, icemakers, dehumidifiers as well as air conditioners at various evaporation temperatures.

### TECHNICAL DATA *Nominal Capacities<sup>1</sup>*

R22 PS: 2,8 MPa		R407C <sup>2)</sup> PS: 2,8 MPa				R404A / R507A PS: 3,5 MPa				R134a PS: 2,1 MPa				R410A PS: 4,5 MPa			
Model Name <sup>3)</sup>	Capacity [USRT]	Capacity [kW]	Model Name <sup>3)</sup>	Capacity [USRT]	Capacity [kW]	Model Name <sup>3)</sup>	Capacity [USRT]	Capacity [kW]	Model Name <sup>3)</sup>	Capacity [USRT]	Capacity [kW]	Model Name <sup>3)</sup>	Capacity [USRT]	Capacity [kW]	Model Name <sup>3)</sup>	Capacity [USRT]	Capacity [kW]
RFGD 01-1	3,0	10,6	RFGD 02-1	3,1	10,9	RFGD 03-1	2,0	7,0	RFGD 04-1	1,8	6,3	RFGD 05-1	3,5	12,3			
RFGD 01E-1			RFGD 02E-1			RFGD 03E-1			RFGD 04E-1			RFGD 05E-1					
RFGD 01-2	4,0	14,1	RFGD 02-2	4,2	14,8	RFGD 03-2	2,8	9,8	RFGD 04-2	2,5	8,8	RFGD 05-2	4,5	15,8			
RFGD 01E-2			RFGD 02E-2			RFGD 03E-2			RFGD 04E-2			RFGD 05E-2					
RFGD 01-3	6,0	21,1	RFGD 02-3	6,3	22,2	RFGD 03-3	4,2	14,8	RFGD 04-3	3,6	12,7	RFGD 05-3	7,0	24,6			
RFGD 01E-3			RFGD 02E-3			RFGD 03E-3			RFGD 04E-3			RFGD 05E-3					
RFGD 01-4	7,5	26,4	RFGD 02-4	8,1	28,5	RFGD 03-4	5,4	19,0	RFGD 04-4	4,6	16,2	RFGD 05-4	8,6	30,2			
RFGD 01E-4			RFGD 02E-4			RFGD 03E-4			RFGD 04E-4			RFGD 05E-4					
RFGD 01-5	9,0	31,7	RFGD 02-5	9,4	33,1	RFGD 03-5	6,4	22,5	RFGD 04-5	5,5	19,3	RFGD 05-5	10,6	37,3			
RFGD 01E-5			RFGD 02E-5			RFGD 03E-5			RFGD 04E-5			RFGD 05E-5					
RFGD 01-6	11,0	38,7	RFGD 02-6	11,7	41,1	RFGD 03-6	7,8	27,4	RFGD 04-6	6,8	23,9	RFGD 05-6	12,8	45,0			
RFGD 01E-6			RFGD 02E-6			RFGD 03E-6			RFGD 04E-6			RFGD 05E-6					

**Note:** 1) Nominal capacities referred at the following working conditions:

Condensing temperature: 38°C; evaporating temperature +4,4°C; Liquid temperature 37°C Static Super Heating: 3,5K

2) R407C data based on dew point conditions

3) Model Name in this table is referred to the first 4 positions of the model designation

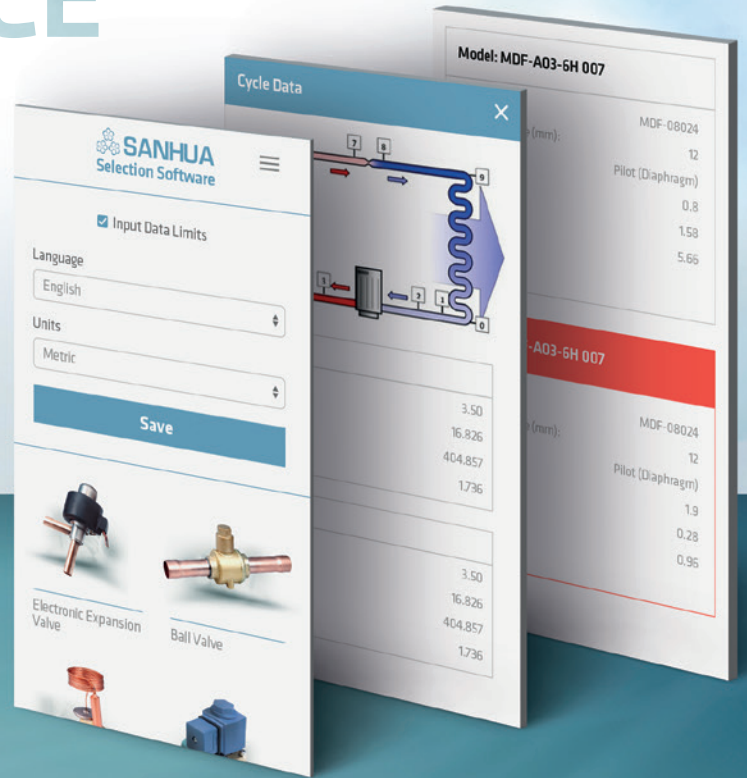
### RFGD STANDARD RANGE B) *Models with Imperial Connections*

Ref.	MWP [MPa]	Valve Body	Capacity Size All Sizes	Model Name			Product Number	Part Number	Order number
				Connections IN x OUT		Pressure Equal. [inch]			
				Imperial	[inch]				
R407C	2,8	RFGD 02E	1-	3	3/8 x 5/8	1/4	RFGD 02E-3.1-33	RFG-25037	10205008402
			2-	4	1/2 x 7/8	1/4	RFGD 02E-4.2-34	RFG-25038	10205007002
			3-	4	1/2 x 7/8	1/4	RFGD 02E-6.3-35	RFG-25039	10205008502
			4-	4	1/2 x 7/8	1/4	RFGD 02E-8.1-36	RFG-25040	10205007802
			5-	5	5/8 x 7/8	1/4	RFGD 02E-9.4-37	RFG-25041	10205007902
			6-	5	5/8 x 7/8	1/4	RFGD 02E-11.7-38	RFG-25042	10205008002
R404A / R507	3,5	RFGD 03E	1-	3	3/8 x 5/8	1/4	RFGD 03E-2.0-39	RFG-25043	10205008102
			2-	4	1/2 x 7/8	1/4	RFGD 03E-2.8-40	RFG-25044	10205008202
			3-	4	1/2 x 7/8	1/4	RFGD 03E-4.2-41	RFG-25045	10205008302
			4-	4	1/2 x 7/8	1/4	RFGD 03E-5.4-42	RFG-25046	10205008602
			5-	5	5/8 x 7/8	1/4	RFGD 03E-6.4-43	RFG-25047	10205008702
			6-	5	5/8 x 7/8	1/4	RFGD 03E-7.8-44	RFG-25048	10205008802
R134a	2,1	RFGD 04E	1-	3	3/8 x 5/8	1/4	RFGD 04E-1.8-01	RFG-25049	10205026702
			2-	4	1/2 x 7/8	1/4	RFGD 04E-2.5-02	RFG-25050	10205026802
			3-	4	1/2 x 7/8	1/4	RFGD 04E-3.6-03	RFG-25051	10205026902
			4-	4	1/2 x 7/8	1/4	RFGD 04E-4.6-04	RFG-25051	10205026902
			5-	5	5/8 x 7/8	1/4	RFGD 04E-5.5-49	RFG-25053	10205008902
			6-	5	5/8 x 7/8	1/4	RFGD 04E-6.8-32	RFG-25054	10205004402
R410A	4,5	RFGD 05E	1-	3	3/8 x 5/8	1/4	RFGD 05E-3.5-22	RFG-25055	10205002502
			2-	4	1/2 x 7/8	1/4	RFGD 05E-4.5-23	RFG-25056	10205002702
			3-	4	1/2 x 7/8	1/4	RFGD 05E-7.0-24	RFG-25057	10205002802
			4-	4	1/2 x 7/8	1/4	RFGD 05E-8.6-25	RFG-25058	10205002902
			5-	5	5/8 x 7/8	1/4	RFGD 05E-10.6-27	RFG-25059	10205003102
			6-	5	5/8 x 7/8	1/4	RFGD 05E-12.8-26	RFG-25060	10205003002

# WE ANNOUNCE SELECTION TOOL APP



This app offers you suggestions for the **selection of refrigeration and air-conditioning components** based on the user's requirements or on standard operating conditions in common refrigeration and A/C system.

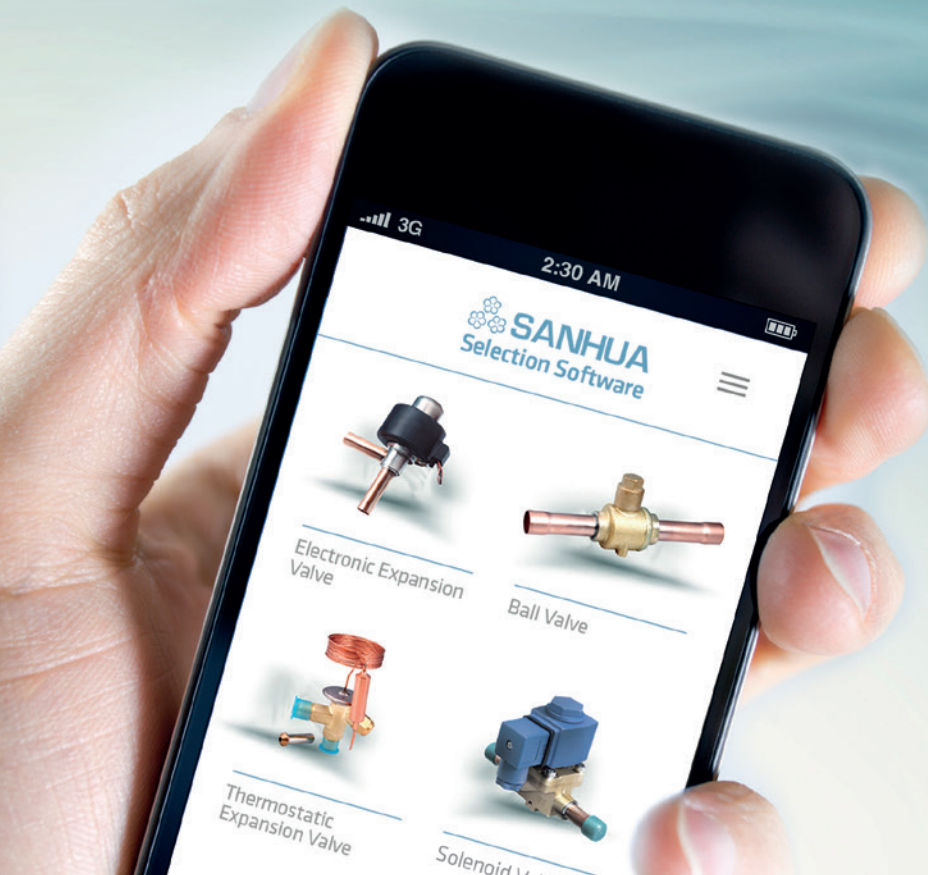


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AUTOMOTIVE INDUSTRIES WORLDWIDE



DECLARATION OF  
CONFORMITY:  
Pressure Equipment  
Directive 2014/68/EU

## Ball Valve

### REFRIGERANT

R22, R134a, R404A, R407C, R410A, R507A  
Bi-directional, full port

LARGE TEMPERATURE  
SERVICE RANGE  
-40°C to +120°C

PS  
45 bar

### SBV SERIES



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.

Model	Part Number	Order number	Connection	Connection	Kv (m³/h)
			[inch]	(mm)	
Without access fitting					
SBV(M)-A2YHSY-2-SA	SBV-13001	10150053902	-	6	1,9
SBV(M)-A2YHSY-1-SA	SBV-13002	10150058302	1/4	-	1,9
SBV(M)-A3YHSY-2-SA	SBV-13037	10150053702	3/8	-	5,5
SBV(M)-A3YHSY-1-SA	SBV-13003	10150057302	-	10	5,5
SBV(M)-A4YHSY-2-SA	SBV-13004	10150057402	-	12	10
SBV(M)-A4YHSY-1-SA	SBV-13005	10150054102	1/2	-	10
SBV(M)-A5YHSY-2-SA	SBV-13006	10150057602	-	15	13
SBV(M)-A5YHSY-1-SA	SBV-13007	10150053302	5/8	-	16
SBV(M)-A6YHSY-2-SA	SBV-13008	10150054602	-	18	20
SBV(M)-A6YHSY-1-SA	SBV-13009	10150054302	3/4	-	20
SBV(M)-A7YHSY-1-SA	SBV-13010	10150053502	7/8	22	28
SBV(M)-A9YHSY-2-SA	SBV-13011	10150055102	-	28	52
SBV(M)-A9YHSY-1-SA	SBV-13012	10150054702	1 1/8	-	52
SBV(M)-A11YHSY-1-SA	SBV-13013	10150055002	1 3/8	35	80
SBV(M)-A13YHSY-2-SA	SBV-13038	10150055502	1 5/8	-	120
SBV(M)-A13YHSY-1-SA	SBV-13014	10150055302	-	42	120
SBV(M)-A17YHSY-1-SA	SBV-13015	10150055702	2 1/8	54	225
SBV(M)-A19YHSY-1-SA	SBV-13016	10150055902	-	64	225
SBV(M)-A21YHSY-2-SA	SBV-13017	10150056302	2 5/8	-	305
SBV(M)-A25YHSY-2-SA	SBV-13018	10150056502	3 1/8	80	635
SBV(M)-A29YHSY-1-SA	SBV-13041	10150057002	3 5/8	92	805
SBV(M)-A33YHSY-2-SA	SBV-13046	10150056102	4 1/8	105	950
SBV(M)-A34YHSY-1-SA	SBV-13042	10150057102	4 1/4	108	950

Model	Part Number	Order number	Connection	Connection	Kv (m³/h)
			[inch]	(mm)	
With access fitting					
SBV(M)-JA2YHSY-2-SA	SBV-13019	10150056702	-	6	1,9
SBV(M)-JA2YHSY-1-SA	SBV-13020	10150058402	1/4	-	1,9
SBV(M)-JA3YHSY-2-SA	SBV-13039	10150053802	3/8	-	5,5
SBV(M)-JA3YHSY-1-SA	SBV-13021	10150056802	-	10	5,5
SBV(M)-JA4YHSY-2-SA	SBV-13022	10150057502	-	12	10
SBV(M)-JA4YHSY-1-SA	SBV-13023	10150054002	1/2	-	10
SBV(M)-JA5YHSY-2-SA	SBV-13024	10150057702	-	15	13
SBV(M)-JA5YHSY-1-SA	SBV-13025	10150053402	5/8	16	14
SBV(M)-JA6YHSY-2-SA	SBV-13026	10150054502	-	18	20
SBV(M)-JA6YHSY-1-SA	SBV-13027	10150054202	3/4	-	20
SBV(M)-JA7YHSY-1-SA	SBV-13028	10150053602	7/8	22	28
SBV(M)-JA9YHSY-2-SA	SBV-13029	10150055202	-	28	52
SBV(M)-JA9YHSY-1-SA	SBV-13030	10150054802	1 1/8	-	52
SBV(M)-JA11YHSY-1-SA	SBV-13031	10150054902	1 3/8	35	80
SBV(M)-JA13YHSY-2-SA	SBV-13040	10150055402	1 5/8	-	120
SBV(M)-JA13YHSY-1-SA	SBV-13032	10150057802	-	42	120
SBV(M)-JA17YHSY-1-SA	SBV-13033	10150055802	2 1/8	54	225
SBV(M)-JA19YHSY-1-SA	SBV-13034	10150056002	-	64	225
SBV(M)-JA21YHSY-2-SA	SBV-13035	10150056402	2 5/8	-	305
SBV(M)-JA25YHSY-2-SA	SBV-13036	10150056602	3 1/8	80	635
SBV(M)-JA29YHSY-1-SA	SBV-13043	10150056902	3 5/8	92	805
SBV(M)-JA33YHSY-2-SA	SBV-13045	10150056202	4 1/8	105	950
SBV(M)-JA34YHSY-1-SA	SBV-13044	10150057202	4 1/4	108	950

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**ADVANCED**  
Technology & Solutions

- ✓ Improves efficiency by **30%**
- ✓ Refrigerant Charge Reduction by **30%** Environmental Friendly
- ✓ MCHE is lighter in weight, smaller in volume Compact Design



**SANHUA DELIVERS OVER 1,300,000 MCHE CONDENSERS (CO & HP) AND EVAPORATORS HELPING TO IMPROVE SYSTEM EFFICIENCY BY UP TO 30%**



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Pressure Equipment Directive 2014/68/EU

## Ball Valve

APPLICABLE FOR R744 (CO<sub>2</sub>)

MEDIUM TEMPERATURE  
TS MIN./MAX.:  
-40°C/+150°C

MAX. OPERATING PRESSURE PS:  
6,0 MPa (60bar)

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

CERTIFICATIONS:  
PED declaration

### CBV SERIES

### GENERAL CHARACTERISTICS



CBV valves are typically used in commercial CO<sub>2</sub> refrigeration applications in order to open and to shut off inner flow path by operating the valve stem. The ball valve of series CBV is applicable for subcritical CO<sub>2</sub> refrigeration systems and is a perfect choice for all similar CO<sub>2</sub> systems.

Model	Part number	Order number <sup>1)</sup>	Connection Ø d ODF		Kv [m <sup>3</sup> /h]	Wrench Size Cap [mm]	PED Category
			[inch]	[mm]			
CBV02-002	CBV-67001	10150074202	-	6	1,9	H14	4.3
CBV02-001	CBV-67002	10150074102	1/4	-	1,9	H14	4.3
CBV03-001	CBV-67003	10150074302	3/8	-	5,5	H14	4.3
CBV03-002	CBV-67004	10150074402	-	10	5,5	H14	4.3
CBV04-002	CBV-67005	10150074602	-	12	10,2	H14	4.3
CBV04-001	CBV-67006	10150074502	1/2	-	10,2	H14	4.3
CBV05-001	CBV-67007	10150074702	5/8	16	13,8	H14	4.3
CBV06-002	CBV-67008	10150074902	-	18	19,5	H17	4.3
CBV06-001	CBV-67009	10150074802	3/4	-	19,5	H17	4.3
CBV07-001	CBV-67010	10150063002	7/8	22	28,0	H17	4.3
CBV09-002	CBV-67011	10150075002	-	28	51,5	H17	4.3
CBV09-001	CBV-67012	10150062902	1 1/8	-	51,5	H17	4.3
CBV11-001	CBV-67013	10150075102	1 3/8	35	80,0	H17	I
CBV13-002	CBV-67014	10150062802	1 5/8	-	119,8	H17	I
CBV13-003	CBV-67015	10150075202	-	42	119,8	H17	I
CBV17-001	CBV-67016	10150075302	2 1/8	54	225,0	H19	I

Note: 1) Extent of delivery: valve body and standard cap

## Check Valve Piston Type

REFRIGERANT  
R22, R134a, R404A,  
R407C, R410A, R507A

LARGE TEMPERATURE SERVICE RANGE  
-50°C to +140°C

PS  
46 bar

SOLDER CONNECTION



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### YCV SERIES



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.

Model	Part number	Order number	Type	Connection Ø ODF		Kv [m <sup>3</sup> /h]
				[inch]	[mm]	
				YCVS5-11GSHC-1	YCV-15001	10160030202
YCVS5-22GSHC-1	YCV-15002	10160024502	straight-way	1/4	-	0,56
YCVS8-33GSHC-1	YCV-15007	10160024602	straight-way	3/8	-	1,43
YCVSH8-33GSHC-1	YCV-15008	10160030502	straight-way	3/8	-	1,43
YCVS8-33GSHC-2	YCV-15009	10160031302	straight-way	-	10	1,43
YCVSH8-33GSHC-2	YCV-15010	10160033202	straight-way	-	10	1,43
YCVS10-33GSHC-1	YCV-15015	10160023802	straight-way	-	12	2,1
YCVSH10-33GSHC-1	YCV-15016	10160029102	straight-way	-	12	2,1
YCVS10-44GSHC-1	YCV-15017	10160023902	straight-way	1/2	-	2,1
YCVSH10-44GSHC-1	YCV-15018	10160024802	straight-way	1/2	-	2,1
YCVS13-55GSHC-1	YCV-15021	10160024002	straight-way	5/8	16	3,9
YCVSH13-55GSHC-1	YCV-15022	10160024902	straight-way	5/8	16	3,9
YCVS17-55GSHC-1	YCV-15027	10160024202	straight-way	-	18	5,52
YCVSH17-55GSHC-1	YCV-15028	10160036902	straight-way	-	18	5,52
YCVS17-66GSHC-1	YCV-15029	10160024102	straight-way	3/4	-	5,52
YCVSH17-66GSHC-1	YCV-15030	10160028202	straight-way	3/4	-	5,52
YCVS17-77GSHC-1	YCV-15051	10160025002	straight-way	7/8	22	5,52
YCVSH17-77GSHC-1	YCV-15052	10160037502	straight-way	7/8	22	5,52
YCVS20-77GSHC-1	YCV-15033	10160030002	L-shape	7/8	22	13,2
YCVSH20-77GSHC-1	YCV-15034	10160034602	L-shape	7/8	22	13,2
YCVS26-88GSHC-1	YCV-15039	10160037202	L-shape	-	28	19,02
YCVSH26-88GSHC-1	YCV-15040	10160023702	L-shape	-	28	19,02
YCVS26-99GSHC-1	YCV-15041	10160030102	L-shape	1 1/8	-	19,02
YCVSH26-99GSHC-1	YCV-15042	10160034702	L-shape	1 1/8	-	19,02
YCVS31-BBGSHC-1	YCV-15045	10160024402	L-shape	1 3/8	35	29,1
YCVSH31-BBGSHC-1	YCV-15046	10160037402	L-shape	1 3/8	35	29,1
YCVS31-DDGSHC-1	YCV-15047	10160037002	L-shape	1 5/8	-	29,1
YCVSH31-DDGSHC-1	YCV-15048	10160037102	L-shape	1 5/8	-	29,1
YCVS31-DDGSHC-2	YCV-15049	10160032402	L-shape	-	42	29,1
YCVSH31-DDGSHC-2	YCV-15050	10160042302	L-shape	-	42	29,1





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## Sight Glass

**REFRIGERANT**  
R22, R134a, R404A, R407C, R410A, R507A, R744, R407A/F, R1234ze

**LARGE TEMPERATURE SERVICE RANGE**  
-50°C to +80°C

**PS**  
46 bar

### SVJ SERIES



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.

#### FEMALE / FEMALE

Model	Part number	Order number	Connection Type	Connections ODF	
				Ød	
				[inch]	[mm]
SVJ06H12	SVJ-42020	10285007102	ODF x ODF Solder	-	6
SVJ06H11	SVJ-42021	10285007002	ODF x ODF Solder	1/4	-
SVJ10H11	SVJ-42022	10285007202	ODF x ODF Solder	3/8	-
SVJ10H12	SVJ-42023	10285007302	ODF x ODF Solder	-	10
SVJ12H11	SVJ-42024	10285006902	ODF x ODF Solder	1/2	-
SVJ12H12	SVJ-42025	10285007402	ODF x ODF Solder	-	12
SVJ16H11	SVJ-42026	10285007502	ODF x ODF Solder	5/8	16
SVJ19H11	SVJ-42027	10285007602	ODF x ODF Solder	3/4	-
SVJ22H11	SVJ-42028	10285007702	ODF x ODF Solder	7/8	22

#### MALE / MALE

Model	Part number	Order number	Connection Type	SAE Flare	
				Ød	
				[inch]	[mm]
SVJ06L11	SVJ-42029	10285007902	Flare M x M	1/4	
SVJ10L11	SVJ-42030	10285008102	Flare M x M	3/8	
SVJ12L11	SVJ-42031	10285008302	Flare M x M	1/2	
SVJ16L11	SVJ-42032	10285008502	Flare M x M	5/8	
SVJ19L11	SVJ-42033	10285008702	Flare M x M	3/4	

#### MALE / FEMALE

Model	Part number	Order number	Connection Type	SAE Flare		Dimensions & Weight			
				Ød		H	ØD	B	Weight
				[inch]	[mm]	[mm]	[mm]	[g]	
SVJ06L41	SVJ-42034	10285008002	Flare F x M	1/4	30	32	22	200	
SVJ10L41	SVJ-42035	10285008202	Flare F x M	3/8	30	32	22	240	
SVJ12L41	SVJ-42036	10285008402	Flare F x M	1/2	32	30	24	250	
SVJ16L41	SVJ-42037	10285008602	Flare F x M	5/8	37	30	24	320	
SVJ19L41	SVJ-42038	10285008802	Flare F x M	3/4	37	30	24	330	

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## Brass Service Valve

**REFRIGERANT**  
R134a, R404A, R407C, R410A, R507A

**LARGE TEMPERATURE SERVICE RANGE**  
-30°C to +120°C

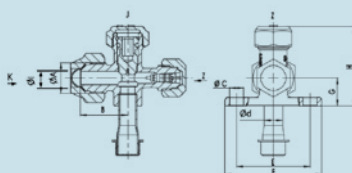
**PS**  
45 bar

### SSV SERIES



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.

Model	Part number	Order number	ØA		B	ØC	ØD		ØI Pipe	Charge Port Flare (in)	Cooling Capacity
			Flare in	mm			in	mm			
SSV-A2GSHC-23	SSV-14001	10165068702	7/16-20UNF	23	7.2	1/4	6.35	4.8	-	0.7 - 1.5	
SSV-JA3GSHC-20	SSV-14002	10165068602	5/8-18UNF	24.5	7.2	3/8	9.52	7.0	5/16	0.7 - 3.7	
SSV-JA4GSHC-19	SSV-14003	10165070602	3/4-16UNF	28	7.2	1/2	12.7	10	5/16	1.1 - 7.5	
SSV-JA5GSHC-15	SSV-14004	10165068802	7/8-14UNF	34	7.2	5/8	15.9	12.5	5/16	1.5 - 8.8	
SSV-JA6-GSHC-13	SSV-14005	10165070302	1-1/16-14UNS	40	7.2	3/4	19.1	16	5/16	3.7 - 5.9	
SSV-JA3GSHC-44	5/8-18UNF					3/8		7	1/4	0.7 - 3.7	
SSV-JA4GSHC-44	3/4-16UNF					1/2		10	1/4	1.1 - 7.5	
SSV-JA5GSHC-32	7/8-14UNF					5/8		12.5	1/4	1.5 - 8.8	
SSV-JA6GSHC-25	1-1/16-14UNS					3/4		16	1/4	3.7 - 5.9	



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# Charge Valve

**REFRIGERANT**  
R22, R134a, R404A, R407C,  
R410A, R507A

**LARGE TEMPERATURE SERVICE RANGE**  
-30°C to +80°C

**PS**  
45 bar

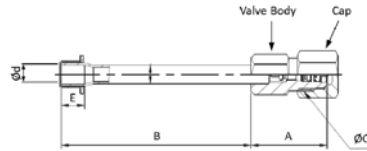
## TCJ SERIES

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.



Model	Part number	Order number	A	B	C Flare Ø	D solder Ø		E
			mm	mm	in	mm	in	mm
TCJ-2HMSZ-1	*TCJ-14001	10155004802	26	65	7/16-20	6,35	1/4	8
TCJ-2GMS-1	TCJ-14002	10155001502	26	65	1/2-20	6,35	1/4	8
TCJ-2HLEN-1	*TCJ-14003	10155010302	26	-	7/16-20	-	-	-
TCJ-2GLEN-2	TCJ-14004	10155009202	26	-	1/2-20	-	-	-

\*Only for R22



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**CHILLING**  
*ideas worldwide*

# Uni-Flow Filter Driers

**REFRIGERANT**  
R22, R134a, R404A, R407C,  
R410A, R507A

**FILTRATION**  
20 µm

**LARGE TEMPERATURE  
SERVICE RANGE**  
-30°C to +120°C

**PS**  
48,3 bar



## DTG/L SERIES



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.

### SELECTION FORMULAS

Filter Drier 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) and the following mass flow:

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

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

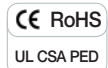
- 60ppm R22
- 15ppm R12
- 30ppm R502
- 50ppm R134a, R404A, R507A, R410A, R407C

### SOLID FILTER CORE\*

Model	Part number	Order number	Capacity [ kW ]					Moisture Absorption (gram H <sub>2</sub> O)							
			R134a	R404A/ R507A	R22	R407C	R410A	R134a		R404A/R507A		R407C/R410A		R22	
								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-B03024-901	DTG-30001	10230009202	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-B03034-901	DTG-30002	10230009102	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-B03044-901	DTG-30153	10230009902	24.6	17.2	25	24.6	25	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4
DTG-B05024-901	DTG-30003	10230009802	8.4	6	8.4	8.4	8.4	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7
DTG-B05034-901	DTG-30004	10230009902	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-B08024-901	DTG-30005	10230010002	8.4	6	8.4	8.4	8.4	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1
DTG-B08034-901	DTG-30006	10230010302	25	17.6	25.3	25	25.7	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1
DTG-B08044-901	DTG-30007	10230010102	30.6	21.5	31.3	30.9	31.7	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1
DTG-B16024-901	DTG-30008	10230011502	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-B16034-901	DTG-30009	10230011702	25.7	17.9	26	26	26.4	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7
DTG-B16044-901	DTG-30010	10230011902	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-B16054-901	DTG-30011	10230011802	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-B16064-901	DTG-30012	10230013102	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-B30034-901	DTG-30013	10230015402	25.7	17.9	26	26	26.4	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1
DTG-B30044-901	DTG-30014	10230015502	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-B30054-901	DTG-30015	10230015702	45.7	32	46.4	46.1	46.8	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1
DTG-B30064-901	DTG-30016	10230015802	62.6	44	63.7	63.3	64.4	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1
DTG-B03044-901	DTG-30153	10230009902	24.6	17.2	25	24.6	25	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4
DTG-B05024-901	DTG-30003	10230009802	8.4	6	8.4	8.4	8.4	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7
DTG-B05034-901	DTG-30004	10230009902	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-B08024-901	DTG-30005	10230010002	8.4	6	8.4	8.4	8.4	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1
DTG-B08034-901	DTG-30006	10230010302	25	17.6	25.3	25	25.7	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1
DTG-B08044-901	DTG-30007	10230010102	30.6	21.5	31.3	30.9	31.7	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1
DTG-B16024-901	DTG-30008	10230011502	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-B16034-901	DTG-30009	10230011702	25.7	17.9	26	26	26.4	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7
DTG-B16044-901	DTG-30010	10230011902	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-B16054-901	DTG-30011	10230011802	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-B16064-901	DTG-30012	10230013102	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-B30034-901	DTG-30013	10230015402	25.7	17.9	26	26	26.4	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1
DTG-B30044-901	DTG-30014	10230015502	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-B30054-901	DTG-30015	10230015702	45.7	32	46.4	46.1	46.8	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1
DTG-B30064-901	DTG-30016	10230015802	62.6	44	63.7	63.3	64.4	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1
DTG-B03044-901	DTG-30153	10230009902	24.6	17.2	25	24.6	25	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4
DTG-B05024-901	DTG-30003	10230009802	8.4	6	8.4	8.4	8.4	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7
DTG-B05034-901	DTG-30004	10230009902	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-B08024-901	DTG-30005	10230010002	8.4	6	8.4	8.4	8.4	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1
DTG-B08034-901	DTG-30006	10230010302	25	17.6	25.3	25	25.7	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1
DTG-B08044-901	DTG-30007	10230010102	30.6	21.5	31.3	30.9	31.7	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1
DTG-B16024-901	DTG-30008	10230011502	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-B16034-901	DTG-30009	10230011702	25.7	17.9	26	26	26.4	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7
DTG-B16044-901	DTG-30010	10230011902	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-B16054-901	DTG-30011	10230011802	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-B16064-901	DTG-30012	10230013102	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-B30034-901	DTG-30013	10230015402	25.7	17.9	26	26	26.4	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1
DTG-B30044-901	DTG-30014	10230015502	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-B30054-901	DTG-30015	10230015702	45.7	32	46.4	46.1	46.8	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1
DTG-B30074-901	DTG-30017	10230015602	63	44.3	64	63.7	64.7	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1
DTG-B41044-901	DTG-30018	10230015302	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-B41054-901	DTG-30019	10230015202	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

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

\* Also Available composed of 80% 3A dessicant and 20% active alumina visit [sanhuaclimate.com](http://sanhuaclimate.com)







DECLARATION OF CONFORMITY:  
Pressure Equipment Directive 2014/68/EU

# Bi-Flow Filter Drier

**REFRIGERANT**  
R22, R134a, R404A, R407C, R410A, R507A

**FILTRATION**  
20 µm

**LARGE TEMPERATURE SERVICE RANGE**  
-30°C to +120°C

**PS**  
48,3 bar

## STG/L SERIES



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.

### SELECTION FORMULAS

Filter Drier 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) and the following mass flow:

- 0,40 kg/min/kW (3.1 lb/min/t) 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
- PS: 4,83 MPa
- 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
- 15ppm R12
- 30ppm R502
- 50ppm R134a, R404A, R507A, R410A, R407C



### SOLID FILTER CORE\*

Model	Part number	Order number	Capacity [ kW ] <sup>9)</sup>					Moisture Absorption (gram H <sub>2</sub> O)							
			R134a	R404A/ R507A	R22	R407C	R410A	R134a		R404A/R507A		R407C/R410A		R22	
								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
STGB052s		10235005902	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
STGB052	STG-31001	10235009002	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
STGB053s		10235006002	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
STGB053	STG-31002	10235009102	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
STGB054s		10235006102	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
STGB054	STG-31003	10235009202	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
STGB082s		10235006202	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
STGB082	STG-31004	10235008702	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
STGB0825s		10235007402	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
STGB083s		10235006302	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
STGB083	STG-31005	10235008802	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
STGB084s		10235006402	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
STGB084	STG-31006	10235008902	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
STGB163s		10235006602	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
STGB163	STG-31007	10235009302	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
STGB164s		10235006502	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
STGB164	STG-31008	10235009402	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
STGB165s		10235006702	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
STGB165		10235008602	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
STGB167s		10235006802	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
STGB303s		10235006902	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
STGB303		10235009502	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
STGB304s		10235007002	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
STGB304		10235009602	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
STGB305s		10235007102	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
STGB305		10235009702	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
STGB306s		10235007202	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
STGB306		10235009802	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
STGB307s		10235007302	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
STGB309s		10235010202	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 clean system at ideal conditions; with impurities accumulated in the filter, the flow may decrease.

\* Also Available composed of 80% 3A desiccant and 20% active alumina visit [sanhuacclimate.com](http://sanhuacclimate.com)



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DECLARATION OF CONFORMITY:  
Pressure Equipment Directive 2014/68/EU

# Filter Driers with (Replaceable Core)

**REFRIGERANT**  
R22, R134a, R404A, R407C, R410A, R507A

**FILTRATION**  
20 µm

**LARGE TEMPERATURE SERVICE RANGE**  
-40°C / +120°C

**PS**  
45 bar

## HTG SERIE



The filter driers with replaceable core (HTG series) are used in liquid line and suction line of refrigerating, freezing and air conditioning system. The filter housing allows to choose different kinds of cores. It's sealed by bottom cover for an easy removal and replacement of core from the bottom. The core holder requires minimum free space to remove the core for replacement.

### 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: AS HRAE Standard 63.1):

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



## FILTER WITH REPLACEABLE CORE

## SH48-A00

## SH48A-A80

Model	Part number	Order number	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	23,9°C	51,7°C								
HTG-A48050-901	HTG-29001	10225004502	65.5	45.9	67.6	67.6	67.6	67.4	58.1	72.6	59.6	57.0	51.8	62.2	57.0	58.0	50.0	61.7	50.7	47.9	43.5	52.9	48.5
HTG-A48070-901	HTG-29002	10225004402	104.7	73.5	108.2	108.2	108.2	67.4	58.1	72.6	59.6	57.0	51.8	62.2	57.0	58.0	50.0	61.7	50.7	47.9	43.5	52.9	48.5
HTG-A48090-901	HTG-29003	10225004302	150.5	105.7	155.4	155.4	155.4	67.4	58.1	72.6	59.6	57.0	51.8	62.2	57.0	58.0	50.0	61.7	50.7	47.9	43.5	52.9	48.5
HTG-A48281-901	HTG-29004	10225004202	150.5	105.7	155.4	155.4	155.4	67.4	58.1	72.6	59.6	57.0	51.8	62.2	57.0	58.0	50.0	61.7	50.7	47.9	43.5	52.9	48.5
HTG-A4810-901	HTG-29005	10225004102	202.7	142.5	209.3	209.3	209.3	67.4	58.1	72.6	59.6	57.0	51.8	62.2	57.0	58.0	50.0	61.7	50.7	47.9	43.5	52.9	48.5
HTG-A48130-901	HTG-29006	10225004002	248.9	174.7	256.6	256.6	256.6	67.4	58.1	72.6	59.6	57.0	51.8	62.2	57.0	58.0	50.0	61.7	50.7	47.9	43.5	52.9	48.5
HTG-A48421-901	HTG-29007	10225003802	59.9	17.47	256.6	256.6	256.6	67.4	58.1	72.6	59.6	57.0	51.8	62.2	57.0	58.0	50.0	61.7	50.7	47.9	43.5	52.9	48.5
HTG-A48170-901	HTG-29008	10225003902	353.5	248.2	364.7	364.7	364.7	67.4	58.1	72.6	59.6	57.0	51.8	62.2	57.0	58.0	50.0	61.7	50.7	47.9	43.5	52.9	48.5
HTG-A48210-901	HTG-29009	10225003702	392.7	276.2	405.7	405.7	405.7	67.4	58.1	72.6	59.6	57.0	51.8	62.2	57.0	58.0	50.0	61.7	50.7	47.9	43.5	52.9	48.5
HTG-A96050-901	HTG-29010	10225003602	65.5	45.9	67.6	67.6	67.6	134.8	116.1	145.2	119.2	114.0	103.7	124.4	114.0	115.9	99.8	123.4	101.3	95.8	87.1	105.7	96.9
HTG-A96070-901	HTG-29011	10225003502	104.7	73.5	108.2	108.2	108.2	134.8	116.1	145.2	119.2	114.0	103.7	124.4	114.0	115.9	99.8	123.4	101.3	95.8	87.1	105.7	96.9
HTG-A96090-901	HTG-29012	10225003402	150.5	105.7	155.4	155.4	155.4	134.8	116.1	145.2	119.2	114.0	103.7	124.4	114.0	115.9	99.8	123.4	101.3	95.8	87.1	105.7	96.9
HTG-A96281-901	HTG-29013	10225003302	150.5	105.7	155.4	155.4	155.4	134.8	116.1	145.2	119.2	114.0	103.7	124.4	114.0	115.9	99.8	123.4	101.3	95.8	87.1	105.7	96.9
HTG-A96110-901	HTG-29014	10225003202	202.7	142.5	209.3	209.3	209.3	134.8	116.1	145.2	119.2	114.0	103.7	124.4	114.0	115.9	99.8	123.4	101.3	95.8	87.1	105.7	96.9
HTG-A96130-901	HTG-29015	10225003102	248.9	174.7	256.6	256.6	256.6	134.8	116.1	145.2	119.2	114.0	103.7	124.4	114.0	115.9	99.8	123.4	101.3	95.8	87.1	105.7	96.9
HTG-A96421-901	HTG-29016	10225003002	248.9	174.7	256.6	256.6	256.6	134.8	116.1	145.2	119.2	114.0	103.7	124.4	114.0	115.9	99.8	123.4	101.3	95.8	87.1	105.7	96.9
HTG-A96170-901	HTG-29017	10225002902	353.5	248.2	364.7	364.7	364.7	134.8	116.1	145.2	119.2	114.0	103.7	124.4	114.0	115.9	99.8	123.4	101.3	95.8	87.1	105.7	96.9
HTG-A96210-901	HTG-29018	10225002802	392.7	276.2	405.7	405.7	405.7	134.8	116.1	145.2	119.2	114.0	103.7	124.4	114.0	115.9	99.8	123.4	101.3	95.8	87.1	105.7	96.9
HTG-B44050-901	HTG-29019	10225002702	65.5	45.9	67.6	67.6	67.6	202.2	174.3	217.8	178.8	171.0	155.4	186.6	171.0	173.9	149.9	185.1	152.0	143.6	130.5	158.6	145.4
HTG-B44070-901	HTG-29020	10225002602	104.7	73.5	108.2	108.2	108.2	202.2	174.3	217.8	178.8	171.0	155.4	186.6	171.0	173.9	149.9	185.1	152.0	143.6	130.5	158.6	145.4
HTG-B44090-901	HTG-29021	10225002502	150.5	105.7	155.4	155.4	155.4	202.2	174.3	217.8	178.8	171.0	155.4	186.6	171.0	173.9	149.9	185.1	152.0	143.6	130.5	158.6	145.4
HTG-B44281-901	HTG-29022	10225002402	150.5	105.7	155.4	155.4	155.4	202.2	174.3	217.8	178.8	171.0	155.4	186.6	171.0	173.9	149.9	185.1	152.0	143.6	130.5	158.6	145.4
HTG-B44110-901	HTG-29023	10225002302	202.7	142.5	209.3	209.3	209.3	202.2	174.3	217.8	178.8	171.0	155.4	186.6	171.0	173.9	149.9	185.1	152.0	143.6	130.5	158.6	145.4
HTG-B44130-901	HTG-29024	10225002202	248.9	174.7	256.6	256.6	256.6	202.2	174.3	217.8	178.8	171.0	155.4	186.6	171.0	173.9	149.9	185.1	152.0	143.6	130.5	158.6	145.4
HTG-B44421-901	HTG-29025	10225002102	248.9	174.7	256.6	256.6	256.6	202.2	174.3	217.8	178.8	171.0	155.4	186.6	171.0	173.9	149.9	185.1	152.0	143.6	130.5	158.6	145.4
HTG-B44170-901	HTG-29026	10225001902	353.5	248.2	364.7	364.7	364.7	202.2	174.3	217.8	178.8	171.0	155.4	186.6	171.0	173.9	149.9	185.1	152.0	143.6	130.5	158.6	145.4
HTG-B44210-901	HTG-29027	10225001802	392.7	276.2	405.7	405.7	405.7	202.2	174.3	217.8	178.8	171.0	155.4	186.6	171.0	173.9	149.9	185.1	152.0	143.6	130.5	158.6	145.4
HTG-B92050-901	HTG-29028	10225001702	65.5	45.9	67.6	67.6	67.6	269.6	232.4	290.4	238.4	228.0	207.2	248.8	228.0	231.9	199.9	246.8	202.6	191.5	174.0	211.5	193.8
HTG-B92070-901	HTG-29029	10225001602	104.7	73.5	108.2	108.2	108.2	269.6	232.4	290.4	238.4	228.0	207.2	248.8	228.0	231.9	199.9	246.8	202.6	191.5	174.0	211.5	193.8
HTG-B92090-901	HTG-29030	10225001502	150.5	105.7	155.4	155.4	155.4	269.6	232.4	290.4	238.4	228.0	207.2	248.8	228.0	231.9	199.9	246.8	202.6	191.5	174.0	211.5	193.8
HTG-B92281-901	HTG-29031	10225001402	150.5	105.7	155.4	155.4	155.4	269.6	232.4	290.4	238.4	228.0	207.2	248.8	228.0	231.9	199.9	246.8	202.6	191.5	174.0	211.5	193.8
HTG-B92110-901	HTG-29032	10225001302	202.7	142.5	209.3	209.3	209.3	269.6	232.4	290.4	238.4	228.0	207.2	248.8	228.0	231.9	199.9	246.8	202.6	191.5	174.0	211.5	193.8
HTG-B92130-901	HTG-29033	10225001202	248.9	174.7	256.6	256.6	256.6	269.6	232.4	290.4	238.4	228.0	207.2	248.8	228.0	231.9	199.9	246.8	202.6	191.5	174.0	211.5	193.8
HTG-B92421-901	HTG-29034	10225001102	248.9	174.7	256.6	256.6	256.6	269.6	232.4	290.4	238.4	228.0	207.2	248.8	228.0	231.9	199.9	246.8	202.6	191.5	174.0	211.5	193.8
HTG-B92170-901	HTG-29035	10225001002	353.5	248.2	364.7	364.7	364.7	269.6	232.4	290.4	238.4	228.0	207.2	248.8	228.0	231.9	199.9	246.8	202.6	191.5	174.0	211.5	193.8
HTG-B92210-901	HTG-29036	10225000902	392.7	276.2	405.7	405.7	405.7	269.6	232.4	290.4	238.4	228.0	207.2	248.8	228.0	231.9	199.9	246.8	202.6	191.5	174.0	211.5	193.8

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

\*Also Available composed of 80% 3A desiccant and 20% active alumina  
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Suction line Filter-Driers guarantees an acid removal and a drying capacity described in table 7:

Drying capacity: SH48-A30 <sup>3)</sup>				
Filter Type	HTG-A48	HTG-A96	HTG-B44	HTG-B92
Number of cores	1	2	3	4
Acid Adsorption capacity (g) <sup>3)</sup>	28.0	56.0	84.0	112.0
Refrigerant	Evaporating Temp. (°C) <sup>4)</sup>			
	Moisture Absorption [gram H <sub>2</sub> O]			
R22/ R407C <sup>2)</sup>	-40,0	26,0	52,0	78,0
	-20,0	18,0	36,3	54,0
	4,4	11,0	22,0	32,0
R134a	-30,0	43,0	86,0	129,0
	-20,0	36,0	72,0	108,0
	4,4	25,0	50,0	75,0
R404A / R507	-40,0	45,0	90,0	135,0
	-20,0	28,0	56,0	84,0
	4,4	18,0	36,0	54,0
R410A	-40,0	40,0	80,0	120,0
	-20,0	33,0	66,0	99,0
	4,4	24,0	48,0	72,0

Drying capacity is expressed during drying in:

R22: EPD = 10 ppm W, corresponding dew point temperature is -50°C

R134a: EPD = 50 ppm W, corresponding dew point temperature is -37°C

R404A: EPD = 10 ppm W, corresponding dew point temperature is -40°C

R407C: EP



Technical information  
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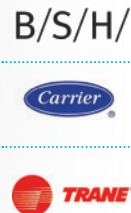
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**BEST SUPPLIER AWARDS**



**Note:** Conditions could change without previous notice due to components updating or typing mistakes. Sanhua declines any responsibility for a wrong product choice based on this table. Please make sure all your requirements are covered in our suggestion.



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