

*AIR  
CONDITIONING*

*COMMERCIAL  
REFRIGERATION*

*HEAT PUMP*



***STANDARD***  
PRODUCT  
CATALOGUE



# 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.

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CA-COM-EN-R0316

## SUMMARY

**4 WAY REVERSING VALVE** SHF series

**4 WAY REVERSING VALVE** SHF (HP) series

**PRESSURE SENSOR** YCQ 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

**THERMOSTATIC EXPANSION VALVE** RFGD 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

**COPPER FILTER DRIER** BGQ series

**FILTER DRIER WITH REPLACEABLE CORE** HTG series

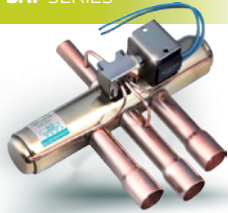
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# 4 Way Reversing Valve

**REFRIGERANT**

R22, R134a, R404A, R407C, R410A, R507A

**LARGE TEMPERATURE SERVICE RANGE**  
-30°C to +135°C**OPD MAX**  
40 bar**PS**  
45 barDECLARATION OF CONFORMITY:  
Pressure Equipment Directive 97/23/EC**CAPACITY SELECTION TABLE****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.

Valve Model	Product Number	Nominal Cooling Capacity (condition 2)							
		R407C		R410A		R134a		R404A/R507A	
		$\Delta P: 0.1 \text{ bar}$	$\Delta P: 0.2 \text{ bar}$	$\Delta P: 0.1 \text{ bar}$	$\Delta P: 0.2 \text{ bar}$	$\Delta P: 0.1 \text{ bar}$	$\Delta P: 0.2 \text{ bar}$	$\Delta P: 0.1 \text{ bar}$	$\Delta P: 0.2 \text{ bar}$
SHF(L)-3H-12U-51	SHF-19007	3.0	4.3	3.6	5.0	2.4	3.4	2.4	3.4
SHF(L)-4H-23U-51	SHF-19008	3.2	4.6	3.8	5.4	2.6	3.7	2.6	3.7
SHF(G)-7C-34U	SHF-19009	5.9	8.3	6.9	9.7	4.7	6.6	4.7	6.6
SHF(G)-7C-34	SHF-19010	5.9	8.3	6.9	9.7	4.7	6.6	4.7	6.6
SHF(L)-7H-35-51	SHF-19011	5.9	8.3	6.9	9.7	4.7	6.6	4.7	6.6
SHF(G)-11C-34U	SHF-19012	7.9	11.2	9.3	13.1	6.3	8.9	6.3	8.9
SHF(L)-11H-35U-51	SHF-19013	9.1	12.9	10.7	15.1	7.3	10.3	7.3	10.3
SHF(L)-11H-46D1-51	SHF-19014	9.1	12.9	10.7	15.1	7.3	10.3	7.3	10.3
SHF(L)-11H-46D1-51	SHF-19015	9.1	12.9	10.7	15.1	7.3	10.3	7.3	10.3
SHF-14A-46	SHF-50033	13.4	18.9	15.7	22.2	10.7	15.1	10.7	15.1
SHF-20D-46-02	SHF-50022	19.3	27.3	22.5	31.9	15.4	21.7	15.4	21.7
SHF-20D-47-02	SHF-50041	20.1	28.4	23.5	33.2	16.0	22.7	16.0	22.6
SHF-20D-57-02	SHF-50042	20.1	28.4	23.5	33.2	16.0	22.7	16.0	22.6
SHF-20D-67-02	SHF-50043	20.1	28.4	23.5	33.2	16.0	22.7	16.0	22.6
SHF-35B-47-04	SHF-50044	29.8	42.2	34.9	49.3	23.8	33.7	23.8	33.6
SHF-35B-57-04	SHF-50045	29.8	42.2	34.9	49.3	23.8	33.7	23.8	33.6
SHF-35B-59-04	SHF-50046	29.8	42.2	34.9	49.3	23.8	33.7	23.8	33.6
SHF-35B-67-04	SHF-50027	29.8	42.2	34.9	49.3	23.8	33.7	23.8	33.6
SHF-35B-69-04	SHF-50047	29.8	42.2	34.9	49.3	23.8	33.7	23.8	33.6
SHF-35B-79-04	SHF-50048	29.8	42.2	34.9	49.3	23.8	33.7	23.8	33.6
SHF-50A-79	SHF-50038	37.1	52.5	43.4	61.4	29.6	41.9	29.6	41.8
SHF-50-91D12	SHF-50016	37.5	53.1	43.9	62.1	29.9	42.4	29.9	42.3
SHF(L)-70-810	SHF-50017	57.8	81.8	67.6	95.7	46.1	65.2	46.1	65.2
SHF(L)-70-810-01	SHF-50024	57.8	81.8	67.6	95.7	46.1	65.2	46.1	65.2
SHF(L)-70-911	SHF-50049	57.8	81.8	67.6	95.7	46.1	65.2	46.1	65.2
SHF(L)-70-911-01	SHF-50050	57.8	81.8	67.6	95.7	46.1	65.2	46.1	65.2
SHF(L)-70-913-05	SHF-50052	57.8	81.8	67.6	95.7	46.1	65.2	46.1	65.2
SHF(L)-70-913-03	SHF-50051	57.8	81.8	67.6	95.7	46.1	65.2	46.1	65.2
SHF(L)-100-911	SHF-50053	82.2	116.2	96.1	136.0	65.6	92.7	65.5	92.6
SHF(L)-100-911-01	SHF-50054	82.2	116.2	96.1	136.0	65.6	92.7	65.5	92.6
SHF(L)-100-913	SHF-50055	82.2	116.2	96.1	136.0	65.6	92.7	65.5	92.6
SHF(L)-100-913-01	SHF-50056	82.2	116.2	96.1	136.0	65.6	92.7	65.5	92.6
SHF(L)-100-1012	SHF-50018	82.2	116.2	96.1	136.0	65.6	92.7	65.5	92.6
SHF(L)-100-1012-01	SHF-50025	82.2	116.2	96.1	136.0	65.6	92.7	65.5	92.6
SHF(L)-100-1013	SHF-50057	82.2	116.2	96.1	136.0	65.6	92.7	65.5	92.6
SHF(L)-100-1013-01	SHF-50058	82.2	116.2	96.1	136.0	65.6	92.7	65.5	92.6
SHF(L)-140-1113	SHF-50059	118.5	167.5	138.6	196.0	94.5	133.7	94.4	133.5
SHF(L)-140-1213	SHF-50060	118.5	167.5	138.6	196.0	94.5	133.7	94.4	133.5
SHF(L)-140-1214	SHF-50019	118.5	167.5	138.6	196.0	94.5	133.7	94.4	133.5
SHF(L)-140-1313	SHF-50061	118.5	167.5	138.6	196.0	94.5	133.7	94.4	133.5
SHF(L)-175-1217	SHF-50020	143.0	202.2	167.3	236.7	114.1	161.4	114.0	161.2
SHF(L)-175-1317	SHF-50062	143.0	202.2	167.3	236.7	114.1	161.4	114.0	161.2
SHF(L)-210-1321	SHF-50021	171.2	242.1	200.3	283.3	136.6	193.2	136.5	193.0
SHF(L)-350-1721	SHF-50031	280.7	397.0	328.5	464.6	224.1	316.9	223.8	316.4
SHF(L)-420-2125	SHF-50032	359.0	507.8	420.1	594.2	286.5	405.2	286.2	404.7

**COIL**

Part Number	Max working temp. [°C]	Power Supply [V]	Rated Voltage [V]
SHF-56001	130	AC	220 to 240
SHF-56002	130	AC	200
SHF-56003	130	AC	100
SHF-56004	130	AC	110 to 120
SHF-56005	130	AC	24
SHF-56006	130	AC	265 to 277
SHF-56024	130	AC	220
SHF-56025	130	AC	110 to 120
SHF-56009	130	AC	24
SHF-56012*	155	AC	220 to 240
SHF-56013*	155	AC	120
SHF-56014*	155	AC	100 to 110
SHF-56015*	155	AC	24
SHF-56016*	155	AC	265 to 277
SHF-56017*	155	AC	200
SHF-56018*	155	DC	12
SHF-56019*	155	DC	24
SHF-56021	130	AC	100
SHF-56022	130	AC	200
SHF-56023	130	DC	12
SHF-56027	130	AC	220 to 240

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

CE RoHS PED &amp; UL, VDE

Nominal operating conditions	Condition 2
Condensing Temperature t <sub>c</sub>	54°C
Evaporating Temperature t <sub>o</sub>	7.2°C
Superheating $\Delta t_{sh}$	5K
Subcooling $\Delta t_{sc}$	5K

Capacity under other condition available on our website

# Pressure Sensor

**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°CDECLARATION OF CONFORMITY:  
Pressure Equipment Directive 97/23/EC**YCQ SERIES**

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	Models with 2% Accuracy			
	YCQ802H01	YCQ805H01	YCQ802L01	YCQ805L01
Part Number	YCQ-21001	YCQ-21002	YCQ-21003	YCQ-21004
Connection Type	Solder	Solder	Thread	Thread
Connection Pipe Size	[inch] 1/4"	1/4"	SAE - 1/4"	SAE - 1/4"
Thread Size	[inch] -	-	7/16-20 UNF	7/16-20 UNF
Supply Voltage	[V] 5 ± 0.25 DC	5 ± 0.25 DC	5 ± 0.25 DC	5 ± 0.25 DC
Pressure Range (0 to pr)	[MPa] 0 to 2	0 to 5	0 to 2	0 to 4.6
Output (VA0 to VApr)	[V] 0.5 to 3.5 DC	0.5 to 3.5 DC	0.5 to 4.5 DC	0.5 to 4.5 DC
Signal Span (VFS) <sup>1</sup>	[V] 3.0	3.0	3.0	3.0
Accuracy <sup>2</sup>	[%] ± 2.0 % F.S.	± 2.0 % F.S.	± 2.0 % F.S.	± 2.0 % F.S.
Response Time <sup>3</sup>	[ms] 10	10	10	10
Current Consumption	[mA] Max. 10	Max. 10	Max. 10	Max. 10
Load Resistance	[kΩ] Min. 10	Min. 10	Min. 10	Min. 10
Insulation Resistance <sup>4</sup>	[MΩ] Min. 100	Min. 100	Min. 100	Min. 100
Maximum Operating Pressure (MOP)	[MPa] 3.50	5.00	3.50	4.60
Test Pressure	[MPa] 5.25	7.50	5.25	7.50
Burst Pressure	[MPa] 17.50	25.00	17.50	25.00
Protection Class	[-] IP 67	IP 67	IP 67	IP 67

Model	Models with 0.8% Accuracy	
	YCQ802H01-1	YCQ802L01-1
Part Number	YCQ-21005	YCQ-21006
Connection Type	Solder	Thread
Connection Pipe Size	[inch] 1/4"	SAE - 1/4"
Thread Size	[inch] -	7/16-20 UNF
Supply Voltage	[V] 5 ± 0.25 DC	5 ± 0.25 DC
Pressure Range (0 to pr)	[MPa] 0 to 2	0 to 2
Output (VA0 to VApr)	[V] 0.5 to 3.5 DC	0.5 to 4.5 DC
Signal Span (VFS) <sup>1</sup>	[V] 3.0	3.0
Accuracy <sup>2</sup>	[%] ± 0.8 % F.S.	± 0.8 % F.S.
Response Time <sup>3</sup>	[ms] 10	10
Current Consumption	[mA] Max. 10	Max. 10
Load Resistance	[kΩ] Min. 10	Min. 10
Insulation Resistance <sup>4</sup>	[MΩ] Min. 100	Min. 100
Maximum Operating Pressure (MOP)	[MPa] 3.50	3.50
Test Pressure	[MPa] 5.25	5.25
Burst Pressure	[MPa] 17.50	17.50
Protection Class	[-] IP 67	IP 67

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

2) Accuracy measured within the temperature ranges:

- YCQ802xxx: from -30°C to +85°C

- YCQ805xxx: 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) and the corresponding signal output change (10 to 90% FS)

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

# 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 97/23/EC

## 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.

Part Number	Nominal Cooling Capacity (kW)						Kv m <sup>3</sup> /h
	R22	R134a	R407C	R404A R507A	R410A		
DPF-09001	3,5	2,7	3,5	2,5	4,2	0,05	
DPF-09002	5,3	4,1	5,3	3,7	6,36	0,08	
DPF-09003	7	5,4	7	4,9	8,4	0,1	
DPF-09004	8,8	6,7	8,75	6,1	10,5	0,16	
DPF-09005	11	8,1	10,5	7,4	12,6	0,2	
DPF-09006	18	13,5	17,5	12,3	21	0,23	
DPF-09007	21	16,2	21	14,7	25,2	0,39	
DPF-09008	28	21,6	28	19,6	33,6	0,43	
DPF-09010	42	32,3	42	29,4	50,4	0,5	
DPF-09011	53	40,4	52,5	36,8	63	0,7	
DPF-09012	70	53,9	70	49,0	84	0,9	
DPF-09013	105	80,9	105	73,5	126	1,1	

## COIL

Part Number
DPF-58001
DPF-58002



# Solenoid Valve

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

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

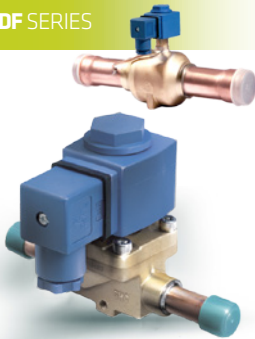
**PS**  
45 bar

**COIL PROTECTION**  
IP65 - DIN Plug



CERTIFICATE OF CONFORMITY:  
Pressure Equipment Directive 97/23/EC

## 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.

Part number	Solder Connection [inch]	Kv (m <sup>3</sup> /h)	Actuation
MDF-08001	1/4	0,16	Direct
MDF-08002	1/4	0,23	Direct
MDF-08003	3/8	0,23	Direct
MDF-08004	3/8	0,8	Pilot
MDF-08005	1/2	0,8	Pilot
MDF-08006	1/2	1,9	Pilot
MDF-08007	5/8	1,9	Pilot
MDF-08027	5/8	2,3	Pilot
MDF-08009	7/8	2,3	Pilot
MDF-08010	7/8	5	Pilot
MDF-08011	1-1/8	5	Pilot
MDF-08012	7/8	5,9	Pilot
MDF-08048	1-1/8	5,9	Pilot
MDF-08013	1-3/8	5,9	Pilot
MDF-08014	1-1/8	10	Pilot
MDF-08015	1-3/8	10	Pilot (P)
MDF-08016	1-3/8	15	Pilot (P)
MDF-08017	1-5/8	15	Pilot (P)
MDF-08018	1-5/8	25	Pilot (P)
MDF-08019	2-1/8	25	Pilot (P)

Part number	Solder Connection [mm]	Kv (m <sup>3</sup> /h)	Actuation
MDF-08020	6	0,16	Direct
MDF-08021	6	0,23	Direct
MDF-08022	10	0,23	Direct
MDF-08023	10	0,8	Pilot
MDF-08024	12	0,8	Pilot
MDF-08025	12	1,9	Pilot
MDF-08007	16	1,9	Pilot
MDF-08027	16	2,3	Pilot
MDF-08009	22	2,3	Pilot
MDF-08010	22	5	Pilot
MDF-08030	28	5	Pilot
MDF-08012	22	5,9	Pilot
MDF-08031	28	5,9	Pilot
MDF-08013	35	5,9	Pilot
MDF-08033	28	10	Pilot (P)
MDF-08015	35	10	Pilot (P)
MDF-08016	35	15	Pilot (P)
MDF-08036	42	15	Pilot (P)
MDF-08037	42	25	Pilot (P)
MDF-08019	54	25	Pilot (P)

Part number	Thread Connection [inch]	Kv (m <sup>3</sup> /h)	Actuation
MDF-08039	1/4	0,16	Direct
MDF-08040	1/4	0,23	Direct
MDF-08041	3/8	0,23	Direct
MDF-08042	3/8	0,8	Pilot
MDF-08043	1/2	0,8	Pilot
MDF-08044	1/2	1,9	Pilot
MDF-08045	5/8	1,9	Pilot
MDF-08046	5/8	2,6	Pilot
MDF-08047	7/8	2,6	Pilot

## COIL

Part Number	Rated Voltage [V]	Power [W]
MDF-60001	24 AC	10,5W (50Hz) 8,5W (60Hz) 12W (50Hz) 10W (60Hz)
MDF-60002	110 to 120 AC	10W (60Hz)
MDF-60003	220 to 240 AC	12W (50Hz) 10W (60Hz)
MDF-60004	24 DC	12W (50Hz) 10W (60Hz)



# Solenoid Valve

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

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

**PS**  
45 bar



CERTIFICATE OF CONFORMITY:  
Pressure Equipment Directive 97/23/EC

## 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)		
Part number	Kv (m <sup>3</sup> /h)	Actuation
FDF-06001	0,08	Direct
FDF-06002	0,2	Pilot
FDF-06003	0,26	Pilot
FDF-06004	0,26	Pilot
FDF-06005	0,56	Pilot
FDF-06006	0,95	Pilot
FDF-06007	2,4	Pilot
FDF-06008	3,44	Pilot

## COIL

Part Number	Rated Voltage [V]	Power [W]
FQA-55001	24 AC	5W (50Hz)
FQA-55002	110 to 120 AC	4,5W (60Hz) 5W (50Hz) 4,5W (60Hz)
FQA-55003	220 to 240 AC	5W (50Hz) 4,5W (60Hz)
FQA-55007 *	220 to 240 AC	6,5W (50Hz) 5W (60Hz)

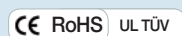
\* only for FDF (NO) valve

## 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.

FDF (N/O)		
Part number	Kv (m <sup>3</sup> /h)	Actuation
FDF-06009	0,05	Direct
FDF-06010	0,08	Direct



# Thermostatic Expansion Valve

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

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

**PS**  
35 bar

**CAPILLAR LENGHT**  
1,5 m

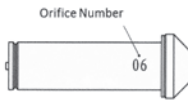


DECLARATION OF CONFORMITY:  
Pressure Equipment  
Directive 97/23/EC  
PED EN

## RFKA SERIES



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.



## ORIFICE

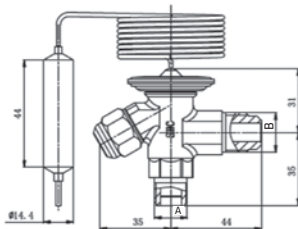
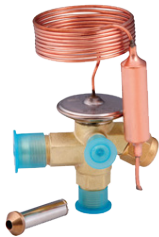
Valve orifice Part number	Nominal Capacity in kW			
	R22	R407C	R404A/R507C	R134a
RFK-24036	1,04	1,09	0,76	0,62
RFK-24037	1,66	1,7	1,34	1,1
RFK-24038	3,5	3,62	3,06	2,18
RFK-24039	4,87	5	4,15	2,77
RFK-24040	6,82	7,02	6,01	4,07
RFK-24041	9,49	9,92	8,73	5,56
RFK-24042	14,9	14,8	12,5	8,35
RFK-24043	19,9	20,2	15,8	12,0

## PORT CONNECTIONS

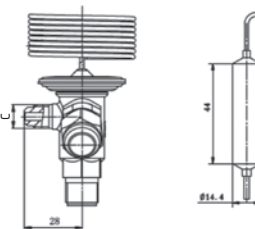
Inlet A		Outlet B		External Equalization C		
Flare	Flare	Solder ODF	Solder ODF	Flare	Solder ODF	Solder ODF
[inch]	[inch]	[mm]	[inch]	[inch]	[mm]	[inch]
3/8	1/2	-	-	1/4	-	-
-	-	12	-	-	6	-
-	-	-	1/2	-	-	1/4

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

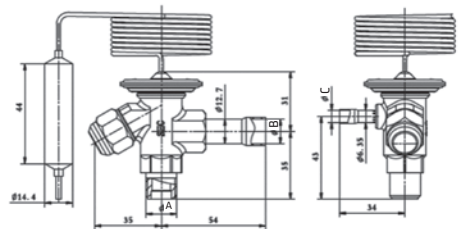
Part Number	Equivalence	Connection type In/Out/Ext.	Outlet size Capacity (kW)		Solder (inch)	Refrigerant P5
			flare [inch]	Solder [mm]		
RFK-24001	TX 2	flare / flare	1/2	-	-	R22 2,8
RFK-24002	TEX 2	flare / flare / flare	1/2	-	-	
RFK-24003	TX 2	flare / solder	-	12	-	
RFK-24004	TEX 2	flare / solder / solder	-	12	-	
RFK-24005	TX 2	flare / solder	-	-	1/2	R407C 2,8
RFK-24006	TEX 2	flare / solder / solder	-	-	1/2	
RFK-24007	TZ 2	flare / flare	1/2	-	-	
RFK-24008	TEZ 2	flare / flare / flare	1/2	-	-	
RFK-24009	TZ 2	flare / solder	-	12	-	R404A / R507 3,5
RFK-24010	TEZ 2	flare / solder / solder	-	12	-	
RFK-24011	-	flare / solder	-	-	1/2	
RFK-24012	TEZ 2	flare / solder / solder	-	-	1/2	
RFK-24013	TS 2	flare / flare	1/2	-	-	R134a 2,1
RFK-24014	TES 2	flare / flare / flare	1/2	-	-	
RFK-24015	TS 2	flare / solder	-	12	-	
RFK-24016	TES 2	flare / solder / solder	-	12	-	
RFK-24017	TS 2	flare / solder	-	-	1/2	R134a 2,1
RFK-24018	TES 2	flare / solder / solder	-	-	1/2	
RFK-24019	TN 2	flare / flare	1/2	-	-	
RFK-24020	TEN 2	flare / flare / flare	1/2	-	-	
RFK-24021	TN 2	flare / solder	-	12	-	R134a 2,1
RFK-24022	TEN 2	flare / solder / solder	-	12	-	
RFK-24023	TN 2	flare / solder	-	-	1/2	
RFK-24024	TEN 2	flare / solder / solder	-	-	1/2	



Valve Body - Connection Type: Flare / Flare / Flare



Valve Body - Connection Type: Flare / Solder / Solder

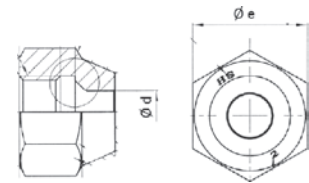
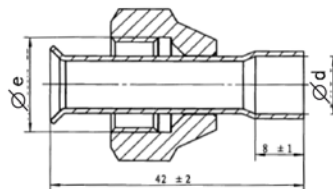


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## SOLDER ADAPTERS INLET A

Product Number	SAE Flare $\varnothing e$	Solder Connection $\varnothing d$
RFK-24044	3/8"	3/8"
RFK-24045	3/8"	10 mm
RFK-24048	3/8"	1/4"
RFK-24049	3/8"	6 mm

## SOLDER ADAPTERS



## SOLDER ADAPTERS FOR EXTERNAL EQUALIZATION C

Product Number	SAE Flare $\varnothing e$	Solder Connection $\varnothing d$
RFK-24046	1/4"	6 mm
RFK-24047	1/4"	1/4"

## FLARE NUTS FOR RFKA

Product Number	SAE Flare [inch]	Pipe Diameter $\varnothing d$	
		[mm]	[inch]
RFK-24050	1/4	6	1/4
RFK-24051	3/8	-	3/8
RFK-24052	1/2	12	1/2

# 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 97/23/EC

## 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		Model Name <sup>3)</sup>	Capacity		Model Name <sup>3)</sup>	Capacity		Model Name <sup>3)</sup>	Capacity		Model Name <sup>3)</sup>	Capacity	
	[USRT]	[kW]		[USRT]	[kW]		[USRT]	[kW]		[USRT]	[kW]		[USRT]	[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	Connections IN x OUT		Pressure Equal. [inch]	Product Number	Product Number
				Imperial	[inch]			
						Model Name		
R407C	2.8	RFGD 02E	1 -	3	3/8 x 5/8	1/4	RFGD 02E-3.1-33	RFG-25037
			2 -	4	1/2 x 7/8	1/4	RFGD 02E-4.2-34	RFG-25038
			3 -	4	1/2 x 7/8	1/4	RFGD 02E-6.3-35	RFG-25039
			4 -	4	1/2 x 7/8	1/4	RFGD 02E-8.1-36	RFG-25040
			5 -	5	5/8 x 7/8	1/4	RFGD 02E-9.4-37	RFG-25041
			6 -	5	5/8 x 7/8	1/4	RFGD 02E-11.7-38	RFG-25042
R404A / R507	3.5	RFGD 03E	1 -	3	3/8 x 5/8	1/4	RFGD 03E-2.0-39	RFG-25043
			2 -	4	1/2 x 7/8	1/4	RFGD 03E-2.8-40	RFG-25044
			3 -	4	1/2 x 7/8	1/4	RFGD 03E-4.2-41	RFG-25045
			4 -	4	1/2 x 7/8	1/4	RFGD 03E-5.4-42	RFG-25046
			5 -	5	5/8 x 7/8	1/4	RFGD 03E-6.4-43	RFG-25047
			6 -	5	5/8 x 7/8	1/4	RFGD 03E-7.8-44	RFG-25048
R134a	2.1	RFGD 04E	1 -	3	3/8 x 5/8	1/4	RFGD 04E-1.8-01	RFG-25049
			2 -	4	1/2 x 7/8	1/4	RFGD 04E-2.5-02	RFG-25050
			3 -	4	1/2 x 7/8	1/4	RFGD 04E-3.6-03	RFG-25051
			4 -	4	1/2 x 7/8	1/4	RFGD 04E-4.6-04	RFG-25052
			5 -	5	5/8 x 7/8	1/4	RFGD 04E-5.5-49	RFG-25053
			6 -	5	5/8 x 7/8	1/4	RFGD 04E-6.8-32	RFG-25054
R410A	4.5	RFGD 05E	1 -	3	3/8 x 5/8	1/4	RFGD 05E-3.5-22	RFG-25055
			2 -	4	1/2 x 7/8	1/4	RFGD 05E-4.5-23	RFG-25056
			3 -	4	1/2 x 7/8	1/4	RFGD 05E-7.0-24	RFG-25057
			4 -	4	1/2 x 7/8	1/4	RFGD 05E-8.6-25	RFG-25058
			5 -	5	5/8 x 7/8	1/4	RFGD 05E-10.6-27	RFG-25059
			6 -	5	5/8 x 7/8	1/4	RFGD 05E-12.8-26	RFG-25060

# Ball Valve

**REFRIGERANT**  
R22, R134a, R404A, R407C, R410A, R507A  
Bi-directionnal, full port

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

**PS**  
45 bar



DECLARATION OF CONFORMITY:  
Pressure Equipment Directive 97/23/EC

## 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.

Part Number	Connection (inch)	Connection (mm)	Kv (m <sup>3</sup> /h)
SBV-13001	-	6	1,9
SBV-13002	1/4	-	1,9
SBV-13037	3/8	-	5,5
SBV-13003	-	10	5,5
SBV-13004	-	12	10,2
SBV-13005	1/2	-	10,2
SBV-13006	-	15	13,2
SBV-13007	5/8	-	13,8
SBV-13008	-	18	19,5
SBV-13009	3/4	-	19,5
SBV-13010	7/8	-	28
SBV-13011	-	28	51,5
SBV-13012	1 1/8	-	51,5
SBV-13013	1 3/8	-	80
SBV-13038	1 5/8	-	119,8
SBV-13014	-	42	119,8
SBV-13015	2 1/8	-	225
SBV-13016	-	64	225
SBV-13017	2 5/8	-	305
SBV-13018	3 1/8	-	635
SBV-13041	3 5/8	-	92
SBV-13046	4 1/8	-	105
SBV-13042	4 1/4	-	108

Part Number	Connection (inch)	Connection (mm)	Kv (m <sup>3</sup> /h)	
				With access fitting
SBV-13019	-	6	1,9	
SBV-13020	1/4	-	1,9	
SBV-13039	3/8	-	5,5	
SBV-13021	-	10	5,5	
SBV-13022	-	12	10,2	
SBV-13023	1/2	-	10,2	
SBV-13024	-	15	13,2	
SBV-13025	5/8	-	16	13,8
SBV-13026	-	18	19,5	
SBV-13027	3/4	-	19,5	
SBV-13028	7/8	-	28	
SBV-13029	-	28	51,5	
SBV-13030	1 1/8	-	51,5	
SBV-13031	1 3/8	-	80	
SBV-13040	1 5/8	-	119,8	
SBV-13032	-	42	119,8	
SBV-13033	2 1/8	-	225	
SBV-13034	-	64	225	
SBV-13035	2 5/8	-	305	
SBV-13036	3 1/8	-	635	
SBV-13043	3 5/8	-	92	
SBV-13045	4 1/8	-	105	
SBV-13044	4 1/4	-	108	

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## Check Valve Piston Type

### 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.

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

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

**PS** 46 bar

**SOLDER CONNECTION**

Part number	Type	Connection		Kv (m <sup>3</sup> /h)
		Ø ODF		
		[in]	[mm]	
YCV-15001	straight-way	-	6	0,56
YCV-15002	straight-way	1/4	-	0,56
YCV-15007	straight-way	3/8	-	1,43
YCV-15008	straight-way	3/8	-	1,43
YCV-15009	straight-way	-	10	1,43
YCV-15010	straight-way	-	10	1,43
YCV-15015	straight-way	-	12	2,1
YCV-15016	straight-way	-	12	2,1
YCV-15017	straight-way	1/2	-	2,1
YCV-15018	straight-way	1/2	-	2,1
YCV-15021	straight-way	5/8	16	3,9
YCV-15022	straight-way	5/8	16	3,9
YCV-15027	straight-way	-	18	5,52
YCV-15028	straight-way	-	18	5,52
YCV-15029	straight-way	3/4	-	5,52
YCV-15030	straight-way	3/4	-	5,52
YCV-15061	straight-way	7/8	22	5,52
YCV-15052	straight-way	7/8	22	5,52
YCV-15033	L-shape	7/8	22	13,2
YCV-15034	L-shape	7/8	22	13,2
YCV-15039	L-shape	-	28	19,02
YCV-15040	L-shape	-	28	19,02
YCV-15041	L-shape	1 1/8	-	19,02
YCV-15042	L-shape	1 1/8	-	19,02
YCV-15045	L-shape	1 3/8	35	29,1
YCV-15046	L-shape	1 3/8	35	29,1
YCV-15047	L-shape	1 5/8	42	29,1
YCV-15048	L-shape	1 5/8	-	29,1
YCV-15049	L-shape	-	42	29,1
YCV-15050	L-shape	-	42	29,1

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Pressure Equipment  
Directive 97/23/EC

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## Sight Glass

### 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.

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

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

**PS** 46 bar

### FEMALE / FEMALE

Part number	Connection Type	Connections	
		Ø [in]	Ø [mm]
SVJ-42001	Solder	-	6
SVJ-42002	Solder	1/4	-
SVJ-42003	Solder	3/8	-
SVJ-42004	Solder	-	10
SVJ-42005	Solder	1/2	-
SVJ-42006	Solder	-	12
SVJ-42007	Solder	5/8	16
SVJ-42008	Solder	3/4	-
SVJ-42009	Solder	7/8	22

### MALE / FEMALE

Part number	Connection Type	SAE Flare Ød [pulg]	Dimensions & Weight				PED Category	
			L [mm]	H [mm]	ØD [mm]	B [mm]		Weight [pulg]
SVJ-42015	Flare	1/4	46	30	32	22	200	3,3
SVJ-42016	Flare	3/8	57	30	32	22	240	3,3
SVJ-42017	Flare	1/2	59	32	30	24	250	3,3
SVJ-42018	Flare	5/8	71	37	30	24	320	3,3
SVJ-42019	Flare	3/4	75	37	30	24	330	3,3

### MALE / MALE

Part number	Connection Type	Connections	
		UNF [in]	UNF [in]
SVJ-42010	Flare	1/4	-
SVJ-42011	Flare	3/8	-
SVJ-42012	Flare	1/2	-
SVJ-42013	Flare	5/8	-
SVJ-42014	Flare	3/4	-



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## Brass Service Valve

### SSV SERIES



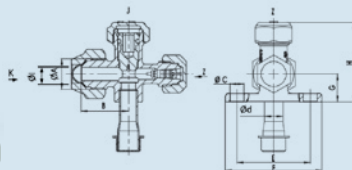
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**REFRIGERANT**  
R134a, R404A, R407C, R410A, R507A

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

**PS** 45 bar

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.



Part number	ØA Flare in	B mm	ØC mm	ØD in	ØD mm	ØI Pipe	Charge Port Flare (in)	Cooling Capacity
SSV-14002	5/8-18UNF	24,5	7,2	3/8	9,52	7,0	5/16	0,7 - 3,7
SSV-14003	3/4-16UNF	28	7,2	1/2	12,7	10	5/16	1,1 - 7,5
SSV-14004	7/8-14UNF	34	7,2	5/8	15,9	12,5	5/16	1,5 - 8,8
SSV-14005	1-1/16-14UNS	40	7,2	3/4	19,1	16	5/16	3,7 - 5,9



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Pressure Equipment  
Directive 97/23/EC

## Charge Valve

### 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.

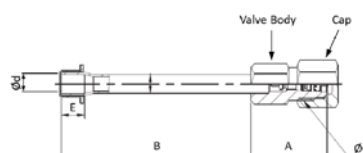
**REFRIGERANT**  
R22, R134a, R404A, R407C,  
R410A, R507A

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

**PS** 45 bar

Part number	A	B	C Flare Ø	D solder Ø		E
	mm	mm	in	mm	in	mm
*TCJ-14001	26	65	7/16-20	6,35	1/4	8
TCJ-14002	26	65	1/2-20	6,35	1/4	8
*TCJ-14003	26	-	7/16-20	-	-	-
TCJ-14004	26	-	1/2-20	-	-	-

\*Only for R22



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Pressure Equipment  
Directive 97/23/EC

## 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.

#### SOLID FILTER CORE\*

Part number	Capacity [ kW ] 1)					Moisture Absorption (gram H <sub>2</sub> O)								Connection SAE Flare (inch)
	R134a	R404A/R507A	R22	R407C2)	R410A	R134a		R404A/R507A		R407C2)/R410A		R22		
						75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	
STG-31001	7.4	5.3	7.7	7.7	7.7	4.3	4	4.1	3.8	3.7	3.4	4.1	3.7	1/4
STG-31002	16.5	11.6	16.9	16.5	16.9	4.3	4	4.1	3.8	3.7	3.4	4.1	3.7	3/8
STG-31003	25	17.6	25.3	25	25.3	4.3	4	4.1	3.8	3.7	3.4	4.1	3.7	1/2
STG-31004	8.8	6	8.8	8.8	8.8	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	1/4
STG-31005	17.2	12	17.6	17.2	17.6	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	3/8
STG-31006	25.7	17.9	26.4	26	26.4	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	1/2
STG-31007	19.7	13.7	20	19.7	20	17.6	16.3	16.6	15.5	15.2	14	16.6	14.2	3/8
STG-31008	30.2	21.5	30.9	30.6	30.9	17.6	16.3	16.6	15.5	15.2	14	16.6	14.2	1/2
STG-31009	34.1	23.9	34.8	34.5	35.2	17.6	16.3	16.6	15.5	15.2	14	16.6	14.2	5/8
STG-31010	25	17.6	25.3	25	25.7	41.3	38.4	38.9	36.5	35.9	32.9	39.1	33.1	3/8
STG-31011	30.9	21.8	31.7	31.7	32	41.3	38.4	38.9	36.5	35.9	32.9	39.1	33.1	1/2
STG-31012	35.5	25	36.2	35.9	36.6	41.3	38.4	38.9	36.5	35.9	32.9	39.1	33.1	5/8
STG-31013	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	3/4

#### 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 (psi) 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/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
- 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

Part number	Capacity [ kW ] 1)					Moisture Absorption (gram H <sub>2</sub> O)								Connection solder (inch)
	R134a	R404A/R507A	R22	R407C2)	R410A	R134a		R404A/R507A		R407C2)/R410A		R22		
						75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	
STG-31014	7.4	5.3	7.7	7.7	7.7	4.3	4	4.1	3.8	3.7	3.4	4.1	3.7	1/4
STG-31015	16.5	11.6	16.9	16.5	16.9	4.3	4	4.1	3.8	3.7	3.4	4.1	3.7	3/8
STG-31016	25	17.6	25.3	25	25.3	4.3	4	4.1	3.8	3.7	3.4	4.1	3.7	1/2
STG-31017	8.8	6	8.8	8.8	8.8	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	1/4
STG-31018	15.8	10.9	16.2	15.8	16.2	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	5/16
STG-31019	17.2	12	17.6	17.2	17.6	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	3/8
STG-31020	25.7	17.9	26.4	26	26.4	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	1/2
STG-31021	19.7	13.7	20	19.7	20	17.6	16.3	16.6	15.5	15.2	14	16.6	14.2	3/8
STG-31022	30.2	21.5	30.9	30.6	30.9	17.6	16.3	16.6	15.5	15.2	14	16.6	14.2	1/2
STG-31023	34.1	23.9	34.8	34.5	35.2	17.6	16.3	16.6	15.5	15.2	14	16.6	14.2	5/8
STG-31024	42.2	29.9	42.9	42.6	43.3	17.6	16.3	16.6	15.5	15.2	14	16.6	14.2	7/8
STG-31025	25	17.6	25.3	25	25.7	41.3	38.4	38.9	36.5	35.9	32.9	39.1	33.1	3/8
STG-31026	30.9	21.8	31.7	31.7	32	41.3	38.4	38.9	36.5	35.9	32.9	39.1	33.1	1/2
STG-31027	35.5	25	36.2	35.9	36.6	41.3	38.4	38.9	36.5	35.9	32.9	39.1	33.1	5/8
STG-31028	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	3/4
STG-31029	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	7/8
STG-31030	54.2	38	55.2	54.5	55.6	41.3	38.4	38.9	36.5	35.9	32.9	39.1	33.1	1 1/2

Part number	Capacity [ kW ] 1)					Moisture Absorption (gram H <sub>2</sub> O)								Connection Solder (mm)
	R134a	R404A/R507A	R22	R407C2)	R410A	R134a		R404A/R507A		R407C2)/R410A		R22		
						75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	
STG-31031	7.4	5.3	7.7	7.7	7.7	4.3	4	4.1	3.8	3.7	3.4	4.1	3.7	6
STG-31032	16.5	11.6	16.9	16.5	16.9	4.3	4	4.1	3.8	3.7	3.4	4.1	3.7	10
STG-31033	25	17.6	25.3	25	25.3	4.3	4	4.1	3.8	3.7	3.4	4.1	3.7	12
STG-31034	8.8	6	8.8	8.8	8.8	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	6
STG-31018	15.8	10.9	16.2	15.8	16.2	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	8
STG-31035	17.2	12	17.6	17.2	17.6	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	10
STG-31036	25.7	17.9	26.4	26	26.4	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	12
STG-31037	19.7	13.7	20	19.7	20	17.6	16.3	16.6	15.5	15.2	14	16.6	14.2	10
STG-31038	30.2	21.5	30.9	30.6	30.9	17.6	16.3	16.6	15.5	15.2	14	16.6	14.2	12
STG-31087	34.1	23.9	34.8	34.5	35.2	17.6	16.3	16.6	15.5	15.2	14	16.6	14.2	16
STG-31024	42.2	29.9	42.9	42.6	43.3	17.6	16.3	16.6	15.5	15.2	14	16.6	14.2	22
STG-31039	25	17.6	25.3	25	25.7	41.3	38.4	38.9	36.5	35.9	32.9	39.1	33.1	10
STG-31040	30.9	21.8	31.7	31.7	32	41.3	38.4	38.9	36.5	35.9	32.9	39.1	33.1	12
STG-31088	35.5	25	36.2	35.9	36.6	41.3	38.4	38.9	36.5	35.9	32.9	39.1	33.1	16
STG-31029	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	22
STG-31043	54.2	38	55.2	54.5	55.6	41.3	38.4	38.9	36.5	35.9	32.9	39.1	33.1	28



**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 dessicant and 20% active alumina  
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## Cooper Filter Drier

**REFRIGERANT**  
R134a, R404A, R407C, R410A, R507A, R600a

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

**PS**  
42 bar



DECLARATION OF CONFORMITY:  
Pressure Equipment  
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### BGQ SERIES



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.

Part number	Inlet connection (mm) / type	Outlet connection (mm) / type	Molec sieve Type	Refrigerant
BGQ-28001	6.35 ODF	6.35 ODF	XH-11	R134a, R600a R404A, R407C, R410A
BGQ-28002	6.5 ODF	6.35 ODM	XH-11	R134a, R600a R404A, R407C, R410A
BGQ-28003	9.52 ODF	9.52 ODM	XH-9	R134a, R600a

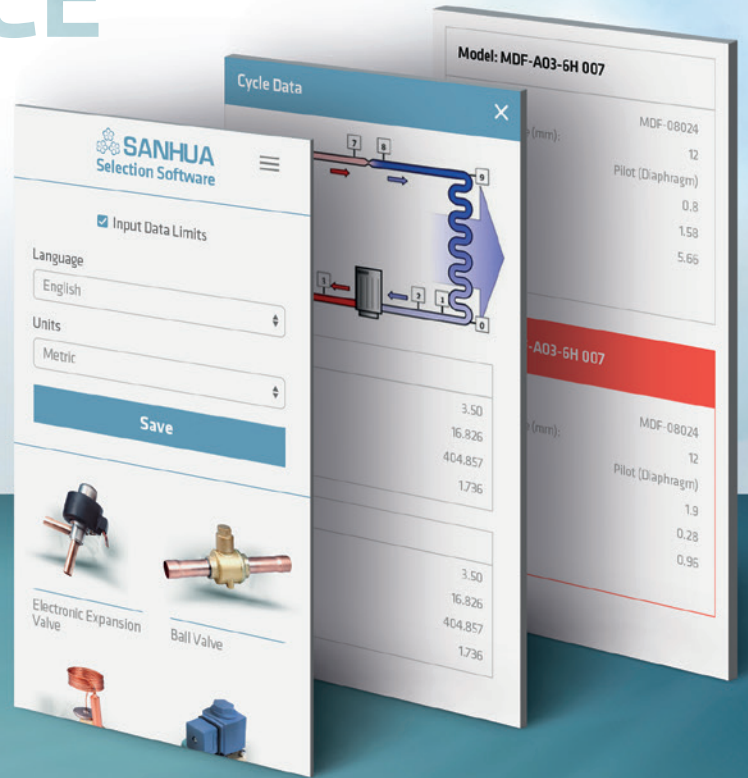




# WE ANNOUNCE SELECTION TOOL APP



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.

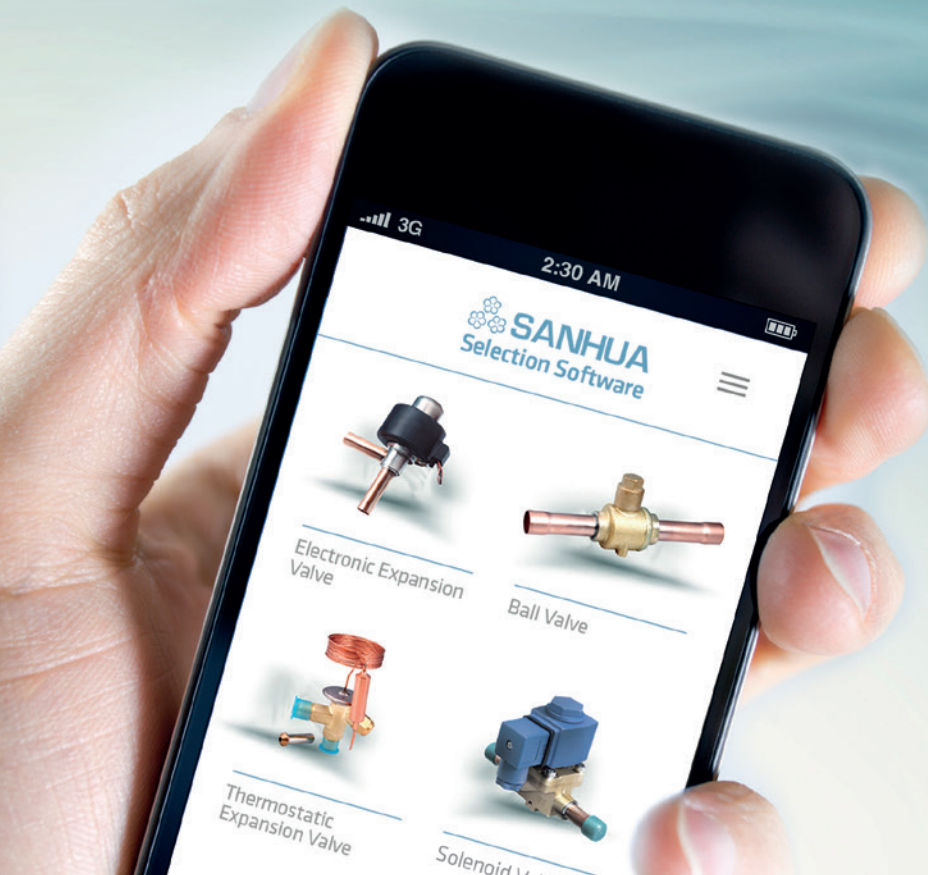


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