

SUMMARY

4 WAY REVERSING VALVE SHF series
PRESSURE SENSOR YCQ 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 RFKA 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.

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



DECLARATION OF
CONFORMITY
Pressure Equipment
Directive 2014/68/EU

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

Part number	Order number	Nominal Cooling Capacity (condition 2)							
		R407C		R410A		R134a		R404A/R507A	
		ΔP: 0.1 bar [kW]	ΔP: 0.2 bar [kW]	ΔP: 0.1 bar [kW]	ΔP: 0.2 bar [kW]	ΔP: 0.1 bar [kW]	ΔP: 0.2 bar [kW]	ΔP: 0.1 bar [kW]	ΔP: 0.2 bar [kW]
SHF(L)-3H-12U-51	10180944702	3.0	4.3	3.6	5.0	2.4	3.4	2.4	3.4
SHF(L)-4H-23U-51	10180944902	3.2	4.6	3.8	5.4	2.6	3.7	2.6	3.7
SHF(C)-7C-34U	10325040102	5.9	8.3	6.9	9.7	4.7	6.6	4.7	6.6
SHF(C)-7C-34	10325040302	5.9	8.3	6.9	9.7	4.7	6.6	4.7	6.6
SHF(L)-7H-35-51	10180945002	5.9	8.3	6.9	9.7	4.7	6.6	4.7	6.6
SHF(L)-7H-35U-51	10325040202	7.9	11.2	9.3	13.1	6.3	8.9	6.3	8.9
SHF(L)-11H-45D1-51	10180942902	9.1	12.9	10.7	15.1	7.3	10.3	7.3	10.3
SHF(L)-11H-45D1-51	10180943002	9.1	12.9	10.7	15.1	7.3	10.3	7.3	10.3
SHF(L)-11H-46D1-51	10180944602	9.1	12.9	10.7	15.1	7.3	10.3	7.3	10.3
SHF-14A-46	10325030102	13.4	18.9	15.7	22.2	10.7	15.1	10.7	15.1
SHF-20D-46-02	10325020102	19.3	27.3	22.5	31.9	15.4	21.7	15.4	21.7
SHF-20D-47-02	10325030302	20.1	28.4	23.5	33.2	16.0	22.7	16.0	22.6
SHF-20D-57-02	10325032902	20.1	28.4	23.5	33.2	16.0	22.7	16.0	22.6
SHF-20D-67-02	10325039802	20.1	28.4	23.5	33.2	16.0	22.7	16.0	22.6
SHF-35B-47-04	10325033602	29.8	42.2	34.9	49.3	23.8	33.7	23.8	33.6
SHF-35B-57-04	10325035702	29.8	42.2	34.9	49.3	23.8	33.7	23.8	33.6
SHF-35B-59-04	10325039902	29.8	42.2	34.9	49.3	23.8	33.7	23.8	33.6
SHF-35B-67-04	10325031002	29.8	42.2	34.9	49.3	23.8	33.7	23.8	33.6
SHF-35B-69-04	10325035802	29.8	42.2	34.9	49.3	23.8	33.7	23.8	33.6
SHF-35B-79-04	10325033002	29.8	42.2	34.9	49.3	23.8	33.7	23.8	33.6
SHF-50A-79	10325030002	37.1	52.5	43.4	61.4	29.6	41.9	29.6	41.8
SHF-50-91D02	10325011602	37.5	53.1	43.9	62.1	29.9	42.4	29.9	42.3
SHF(L)-70-810	10325030202	57.8	81.8	67.6	95.7	46.1	65.2	46.1	65.2
SHF(L)-70-810-01	10325033102	57.8	81.8	67.6	95.7	46.1	65.2	46.1	65.2
SHF(L)-70-911	10325038402	57.8	81.8	67.6	95.7	46.1	65.2	46.1	65.2
SHF(L)-70-911-01	10325038302	57.8	81.8	67.6	95.7	46.1	65.2	46.1	65.2
SHF(L)-70-913-05	10325039502	57.8	81.8	67.6	95.7	46.1	65.2	46.1	65.2
SHF(L)-70-913-03	10325039702	57.8	81.8	67.6	95.7	46.1	65.2	46.1	65.2
SHF(L)-100-911	10325037902	82.2	116.2	96.1	136.0	65.6	92.7	65.5	92.6
SHF(L)-100-911-01	10325038002	82.2	116.2	96.1	136.0	65.6	92.7	65.5	92.6
SHF(L)-100-913	10325033702	82.2	116.2	96.1	136.0	65.6	92.7	65.5	92.6
SHF(L)-100-913-01	10325034702	82.2	116.2	96.1	136.0	65.6	92.7	65.5	92.6
SHF(L)-100-1012	10325027102	82.2	116.2	96.1	136.0	65.6	92.7	65.5	92.6
SHF(L)-100-1013	10325033202	82.2	116.2	96.1	136.0	65.6	92.7	65.5	92.6
SHF(L)-100-1013-01	10325038902	82.2	116.2	96.1	136.0	65.6	92.7	65.5	92.6
SHF(L)-140-1113	10325038102	118.5	167.5	138.6	196.0	94.5	133.7	94.4	133.5
SHF(L)-140-1213	10325038602	118.5	167.5	138.6	196.0	94.5	133.7	94.4	133.5
SHF(L)-140-1214	10180940402	118.5	167.5	138.6	196.0	94.5	133.7	94.4	133.5
SHF(L)-140-1313	10325034102	118.5	167.5	138.6	196.0	94.5	133.7	94.4	133.5
SHF(L)-175-1217	10325030402	143.0	202.2	167.3	236.7	114.1	161.4	114.0	161.2
SHF(L)-175-1317	10325034002	143.0	202.2	167.3	236.7	114.1	161.4	114.0	161.2
SHF(L)-210-1321	10325030502	171.2	242.1	200.3	283.3	136.6	193.2	136.5	193.0
SHF(L)-350-1721	71325000702	280.7	397.0	328.5	464.6	224.1	316.9	223.8	316.4
SHF(L)-420-2125	71325000502	359.0	507.8	420.1	594.2	286.5	405.2	286.2	404.7

COIL

Order number	Max working temp. [°C]	Power Supply [V]	Rated Voltage [V]
10805029102	130	AC	220 to 240
10805027002	130	AC	200
10805023602	130	AC	100
10805150302	130	AC	110 to 120
10805227602	130	AC	24
10805231902	130	AC	265 to 277
10805240702	130	AC	220
10805240802	130	AC	110 to 120
10805023002	130	AC	24
10805065402	155	AC	220 to 240
10805244102	155	AC	220
10805239302	155	AC	120
10805064902	155	AC	24
10805243802	155	AC	265 to 277
10805231802	155	DC	12
10805070102	155	DC	24
10805063202	130	AC	100
10805063802	130	AC	200
10805069302	130	DC	12
10805222902	130	AC	220 to 240

CE RoHS PED & UL, VDE

Nominal operating conditions	Condition 2
Condensing Temperature T _c	54°C
Evaporating Temperature T _e	7.2°C
Superheating dt _{sh}	5K
Subcooling dt _{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°C



DECLARATION OF
CONFORMITY
Pressure Equipment
Directive 2014/68/EU

YCO 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

Models with 2% Accuracy					Models with 0.8% Accuracy		
Model	YCOB02H01	YCOB05H01	YCOB02L01	YCOB05L01	Model	YCOB02H01-1	YCOB02L01-1
Part Number	YCO-21001	YCO-21002	YCO-21003	YCO-21004	Part Number	YCO-21005	YCO-21006
Connection Type	Solder	Solder	Thread	Thread	Connection Type	Solder	Thread
Connection Pipe Size	[inch] 1/4"	1/4"	SAE - 1/4"	SAE - 1/4"	Connection Pipe Size	[inch] 1/4"	SAE - 1/4"
Thread Size	[inch] -	-	7/16-20 UNF	7/16-20 UNF	Thread Size	[inch] -	7/16-20 UNF
Supply Voltage	[V] 5 ± 0.25 DC	5 ± 0.25 DC	5 ± 0.25 DC	5 ± 0.25 DC	Supply Voltage	[V] 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	Pressure Range (0 to pr)	[MPa] 0 to 2	0 to 2
Output (VAD 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	Output (VAD to VApr)	[V] 0.5 to 3.5 DC	0.5 to 4.5 DC
Signal Span (VFS) ¹	[V] 3.0	3.0	3.0	3.0	Signal Span (VFS) ¹	[V] 3.0	3.0
Accuracy ²	[%] ± 2.0 % F.S.	± 2.0 % F.S.	± 2.0 % F.S.	± 2.0 % F.S.	Accuracy ²	[%] ± 0.8 % F.S.	± 0.8 % F.S.
Response Time ³	[ms] 10	10	10	10	Response Time ³	[ms] 10	10
Current Consumption	[mA] Max. 10	Max. 10	Max. 10	Max. 10	Current Consumption	[mA] Max. 10	Max. 10
Load Resistance	[kΩ] Min. 10	Min. 10	Min. 10	Min. 10	Load Resistance	[kΩ] Min. 10	Min. 10
Insulation Resistance ⁴	[MΩ] Min. 100	Min. 100	Min. 100	Min. 100	Insulation Resistance ⁴	[MΩ] Min. 100	Min. 100
Maximum Operating Pressure (MOP)	[MPa] 3.50	5.00	3.50	4.60	Maximum Operating Pressure (MOP)	[MPa] 3.50	3.50
Test Pressure	[MPa] 5.25	7.50	5.25	7.50	Test Pressure	[MPa] 5.25	5.25
Burst Pressure	[MPa] 17.50	25.00	17.50	25.00	Burst Pressure	[MPa] 17.50	17.50
Protection Class	[-] IP 67	IP 67	IP 67	IP 67	Protection Class	[-] IP 67	IP 67

Note:

1) Signal span: $V_{FS} = F.S. (Full Scale) = (V_A(p) - V_{AO})$

2) Accuracy measured within the temperature ranges:

- YCOB02xxx: from -30°C to +85°C

- YCOB05xxx: 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 $p = p/2$.

The equation to calculate the nonlinearity is: $L = (V_A(p) - V_{AO}) / (V_A(p) - V_{AO}) - p/2$

3) Response Time: delay between a pressure change (10 to 90% p) and the corresponding signal output change (10 to 90% F.S)

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

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



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

ADVANCED
Technology & Solutions

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



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.

Part Number	Order number	Nominal Cooling Capacity (kW)						Kv m³/h
		R22	R134a	R407C	R404A R507A	R410A		
DPF-09001	71130011902	4.7	3.6	4.8	3.3	5.5	0.05	
DPF-09002	10130316802	7.8	6.0	8.0	5.5	9.1	0.08	
DPF-09003	71130009902	9.4	7.2	9.7	6.6	11	0.1	
DPF-09004	71130011502	11.5	8.9	11.8	8.1	13.5	0.16	
DPF-09005	10130320702	15	11.6	15.5	10.5	17.6	0.2	
DPF-09006	71130004602	20.7	15.9	21.3	14.5	24.2	0.23	
DPF-09007	71130012102	30.8	23.7	31.7	21.6	36	0.39	
DPF-09008	71130012002	36.3	28	37.4	25.4	42.5	0.43	
DPF-09010	71130003702	42	32.3	42	29.4	50.4	0.5	
DPF-09011	10130035502	53	40.4	52.5	36.8	63	0.7	
DPF-09012	71130006702	70	53.9	70	49.0	84	0.9	
DPF-09013	71130006802	105	80.9	105	73.5	126	1.1	

COIL

Order number
71810005902
71810003702

CE RoHS

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%)



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

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 ¹⁾ (kW)						
		R22	R134a	R407A ²⁾	R407C ²⁾	R407F ²⁾	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 ¹⁾ (USRT)						
		R22	R134a	R407A ²⁾	R407C ²⁾	R407F ²⁾	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:

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

Every 2nd home refrigerator
in Europe is equipped
with a **SANHUA**
solenoid valve



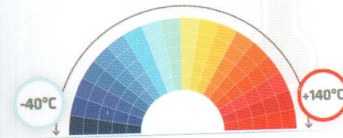
YEARLY SANHUA SUPPLIES OVER
20 MILLION SOLENOID VALVES TO THE
REFRIGERATION, HVAC AND HOME
APPLIANCES INDUSTRIES WORLDWIDE

ADVANCED
Technology & Solutions

0,16 kv



25 kv



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
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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.

Part number	Order number	Solder Connection [inch]	Kv (m³/h)	Actuation
MDF-08001	71125002402	1/4	0,16	Direct
MDF-08002	71125002502	1/4	0,23	Direct
MDF-08003	71125008502	3/8	0,23	Direct
MDF-08004	71125002602	3/8	0,8	Pilot
MDF-08005	71125007402	1/2	0,8	Pilot
MDF-08006	71125002702	5/8	1,9	Pilot
MDF-08007	71125008902	5/8	2,3	Pilot
MDF-08027	71125010102	7/8	2,3	Pilot
MDF-08009	71125002902	7/8	5	Pilot
MDF-08010	71125003002	1-1/8	5	Pilot
MDF-08012	71125009402	7/8	5,9	Pilot
MDF-08048	71125010002	1-1/8	5,9	Pilot
MDF-08013	71125011302	1-3/8	5,9	Pilot
MDF-08014	71125010202	1-1/8	10	Pilot (P)
MDF-08015	71125011202	1-3/8	15	Pilot (P)
MDF-08016	71125006502	1-3/8	15	Pilot (P)
MDF-08017	71125011902	1-5/8	25	Pilot (P)
MDF-08018	71125008702	2-1/8	25	Pilot (P)
MDF-08019	71125011802	2-1/8	25	Pilot (P)

Part number	Order number	Solder Connection [mm]	Kv (m³/h)	Actuation
MDF-08020	71125009102	6	0,16	Direct
MDF-08021	71125007602	6	0,23	Direct
MDF-08022	71125008102	10	0,23	Direct
MDF-08023	71125007902	10	0,8	Pilot
MDF-08024	71125008802	12	0,8	Pilot
MDF-08025	71125008402	12	1,9	Pilot
MDF-08027	71125008902	16	1,9	Pilot
MDF-08027	71125008602	16	2,3	Pilot
MDF-08009	71125010102	22	2,3	Pilot
MDF-08010	71125002902	22	5	Pilot
MDF-08030	71125003002	28	5	Pilot
MDF-08012	71125009502	22	5,9	Pilot
MDF-08031	10125000302	28	5,9	Pilot
MDF-08013	71125011402	35	5,9	Pilot
MDF-08033	71125010202	28	10	Pilot (P)
MDF-08015	71125011202	35	10	Pilot (P)
MDF-08016	71125006502	35	15	Pilot (P)
MDF-08036	71125011502	42	15	Pilot (P)
MDF-08037	71125011702	42	25	Pilot (P)
MDF-08019	71125011802	54	25	Pilot (P)

Part number	Order number	Thread Connection [inch]	Kv (m³/h)	Actuation
MDF-08039	10125000102	1/4	0,16	Direct
MDF-08040	71125005202	1/4	0,23	Direct
MDF-08041	71125010702	3/8	0,23	Direct
MDF-08042	71125005302	3/8	0,8	Pilot
MDF-08043	71125010802	1/2	0,8	Pilot
MDF-08044	71125010602	1/2	1,9	Pilot
MDF-08045	71125005402	5/8	1,9	Pilot
MDF-08046	71125005502	5/8	2,6	Pilot
MDF-08047	71125011102	7/8	2,6	Pilot

COIL

Part Number	Order number	Rated Voltage [V]	Power [W]
MDF-60001	71820000802	24 AC	10,5W (50Hz)
			8,5W (60Hz)
MDF-60002	71820001102	110 to 120 AC	12W (50Hz)
			10W (60Hz)
MDF-60003	71820001002	220 to 240 AC	12W (50Hz)
			10W (60Hz)
MDF-60004	10820001002	24 DC	12W (50Hz)
			10W (60Hz)

CE RoHS

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 2014/68/EU

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/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/C)			
Part number	Order number	Kv (m³/h)	Actuation
FDF-06001	10120019802	0,08	Direct
FDF-06002	10120021102	0,21	Pilot
FDF-06003	10120019302	0,26	Pilot
FDF-06004	10120006502	0,30	Pilot
FDF-06005	10120018702	0,56	Pilot
FDF-06006	10120020902	1,29	Pilot
FDF-06007	10120020302	2,40	Pilot
FDF-06008	10120020502	3,44	Pilot

FDF (N/O)			
Part number	Order number	Kv (m³/h)	Actuation
FDF-06009	10120006702	0,05	Direct
FDF-06010	10120009702	0,08	Direct

COIL

Part Number	Order number	Rated Voltage [V]	Power [W]
FQA-55001	10800072302	24 AC	5W (50Hz)
			4,5W (60Hz)
FQA-55002	10800062002	110 to 120 AC	5W (50Hz)
			4,5W (60Hz)
FQA-55003	10800057302	220 to 240 AC	5W (50Hz)
			4,5W (60Hz)
FQA-55007 *	10800060102	220 to 240 AC	6,5W (50Hz)
			5W (60Hz)

* only for FDF (N/O) valve

CE RoHS UL TUV

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



DECLARATION OF
CONFORMITY
Pressure Equipment
Directive 2014/68/EU

HDF SERIES

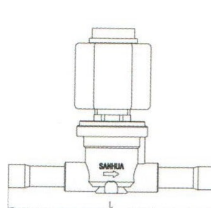


HDF series solenoid valves are piston type pilot operated solenoid valves, mainly used in refrigerant control of various devices such as refrigerating and freezing systems, air conditioners and heat pumps. The maximum admitted refrigerant temperature (equal to +140°C) permits to install HDF valves in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

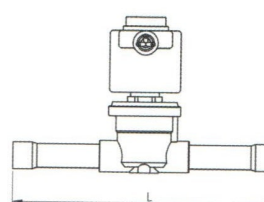
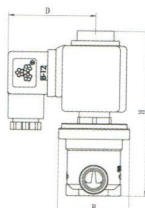
DIMENSIONS

Model Valve body	Solder Connection (ODF)		Kv [m³/h]	Order number ¹⁾	PED Category Group 2	Dimensions [mm]			
	[inch]	[mm]				L	B	D	H
HDF3H01	1/4"	-	0.3	10129000302	3.3	118	33	54	95
HDF3H03	-	6	0.3	10129000502	3.3	118	33	54	95
HDF3H02	3/8"	-	0.3	10129000402	3.3	118	33	54	95
HDF3H05	-	10	0.3	10129000602	3.3	118	33	54	95
HDF6H02	3/8"	-	0.8	10129000102	3.3	118	33	54	95
HDF6H04	-	10	0.8	10129000802	3.3	118	33	54	95
HDF6H03	1/2"	-	0.8	10129000702	3.3	118	33	54	95
HDF6H07	-	12	0.8	10129000202	3.3	127	33	54	95
HDF10H01	1/2"	-	1.9	71129000802	3.3	127	44	54	95
HDF10H03	-	12	1.9	10129000902	3.3	127	44	54	102
HDF10H02	5/8"	16	1.9	10129001702	3.3	166	44	54	102
HDF15H01	5/8"	16	2.6	71129000902	3.3	175	48	54	105
HDF15H02	7/8"	22	2.6	10129001002	3.3	175	48	54	105
HDF20H01	7/8"	22	4.0	10129001102	3.3	181	57	54	114
HDF20H02	1 1/8"	-	4.0	10129001202	3.3	214	57	54	114
HDF20H03	-	28	4.0	10129001302	3.3	214	57	54	114
HDF22H01	7/8"	22	5.7	71129001002	3.3	190	58	54	114
HDF22H03	1 1/8"	-	5.7	10129001502	3.3	214	58	54	114
HDF22H04	-	28	5.7	10129001602	3.3	214	58	54	114
HDF22H02	1 3/8"	35	5.7	10129001402	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 and MQ-D03 Series)

Model Coil ¹⁾	Order number	Rated Voltage [V]	Supply	Power [W]	Frequency [Hz]	Voltage Tolerance	Insulation Class	Protection Class (w/plug)	Wiring type
MQ-A03 024-000 000	71820000802	24	AC	8.5 (50Hz) 7.5 (60Hz)	50/60	-15% to +10%	F	IP65	DIN Plug
MQ-A03 11A-000 000	71820001102	110 to 120		8.5 (50Hz) 7.5 (60Hz)					
MQ-A03 22G-000 000	71820001002	220 to 240		8.5 (50Hz) 7.5 (60Hz)					
MQ-D03 012-000 001	10820001102	12	DC	12.0	-	±10%			
MQ-D03 024-000 002	10820001002	24		12.0					

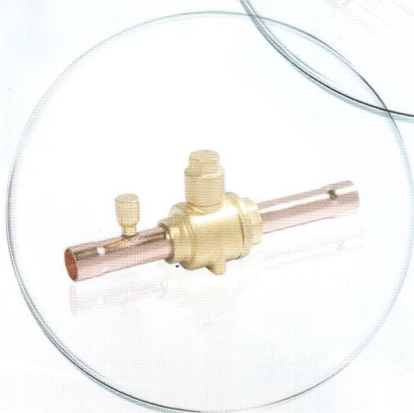
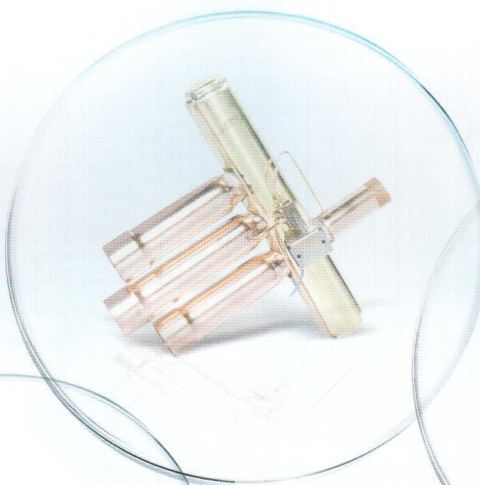
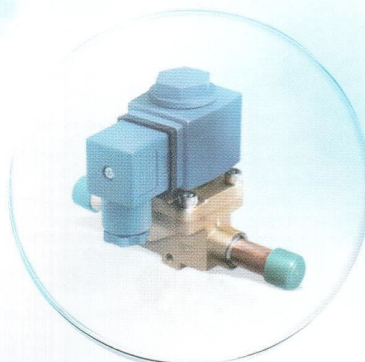
Note: Extent of delivery: coil body, fastening screw for the coil body, DIN plug for electrical connection incl. gaskets

Coils with Lead wires (MQ-A07 and MQ-D07 Series)

Model Coil ¹⁾	Order number	Rated Voltage [V]	Supply	Power [W]	Frequency [Hz]	Voltage Tolerance	Insulation Class	Protection Class (w/plug)	Wiring type
MQ-A07024-000 001	10820008502	24	AC	7.5 (50Hz) 6.5 (60Hz)	50/60	-15% to +10%	B	IP67	Lead Wires
MQ-A07100-000 001	10820008602	100		8.5 (50Hz) 7.5 (60Hz)					
MQ-A0711A-000 001	10820005902	110 to 120		8.5 (50Hz) 7.5 (60Hz)					
MQ-A07200-000 001	10820008702	200		8.0 (50Hz) 7.0 (60Hz)					
MQ-A0722G-000 001	10820002402	220 to 240		7.0 (50Hz) 6.0 (60Hz)					
MQ-D07012-000001	10820002502	12	DC	9.0	-	±10%			
MQ-D07024-000 001	10820005802	24		9.0					

Did you know?

Every second fridge
is equipped with Sanhua
solenoid valve



AIR CONDITIONING COMMERCIAL REFRIGERATION HEAT PUMP

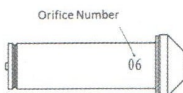
CHILLING ideas worldwide

SANHUA INTERNATIONAL EUROPE
info@sanhuaeurope.com / www.sanhuacclimate.com





CAPILLAR LENGTH
1,5 m

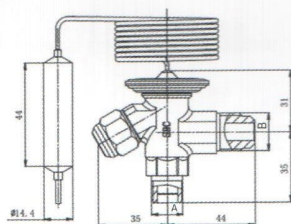


Valve orifice Part number	Order number	Nominal Capacity in kW				Valve Orifice Model
		R22	R407C	R404A/R507C	R134a	
RFK-24036	712000001502	1.04	1.09	0.76	0.62	RFKA-023-0X
RFK-24037	712000001602	1.66	1.7	1.34	1.1	RFKA-023-00
RFK-24038	712000001702	3.5	3.62	3.06	2.18	RFKA-023-01
RFK-24039	712000001802	4.87	5	4.15	2.77	RFKA-023-02
RFK-24040	712000001902	6.82	7.02	6.01	4.07	RFKA-023-03
RFK-24041	712000002002	9.49	9.92	8.73	5.56	RFKA-023-04
RFK-24042	712000002102	14.9	14.8	12.5	8.35	RFKA-023-05
RFK-24043	712000002202	19.9	20.2	15.8	12.0	RFKA-023-06

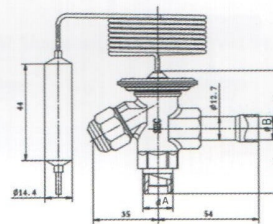
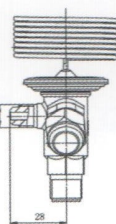
Inlet A		Outlet B		External Equalization C		
Flare	Flare	Solder ODF		Flare	Solder ODF	
[inch]	[inch]	[mm]	[inch]	[inch]	[mm]	[inch]
3/8	1/2	-	-	1/4	-	-
	-	12	-	-	6	-
	-	-	1/2	-	-	1/4

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

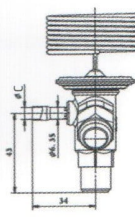
Part number	Order number	Equivalence	Connection type	Outlet size Capacity (kW)		Solder (inch)	Refrigerant PS
			In/Out/Ext.	flare [inch]	Solder [mm]		
RFK-24001	71200003402	TX 2	flare / flare	1/2	-	-	
RFK-24002	71200000502	TX 2	flare / flare / flare	1/2	-	-	
RFK-24003	10201000202	TEX 2	flare / solder	-	12	-	R22
RFK-24004	71200000202	TEX 2	flare / solder / solder	-	12	-	2.8
RFK-24005	71200000302	TX 2	flare / solder	-	-	1/2	
RFK-24006	71200000402	TEX 2	flare / solder / solder	-	-	1/2	
RFK-24007	71205004302	TZ 2	flare / flare	1/2	-	-	
RFK-24008	71200003202	TE 2	flare / flare / flare	1/2	-	-	
RFK-24009	10201000302	TZ 2	flare / solder	-	12	-	R407C
RFK-24010	71201000302	TE 2	flare / solder / solder	-	12	-	2.8
RFK-24011	71201000402	-	flare / solder	-	-	1/2	
RFK-24012	71200003302	TE 2	flare / solder / solder	-	-	1/2	
RFK-24013	71200003502	TS 2	flare / flare	1/2	-	-	
RFK-24014	71200001302	TS 2	flare / flare / flare	1/2	-	-	
RFK-24015	71200000902	TS 2	flare / solder	-	12	-	R404A / R507
RFK-24016	71200000802	TS 2	flare / solder / solder	-	12	-	3.5
RFK-24017	71200001102	TS 2	flare / solder	-	-	1/2	
RFK-24018	71200001202	TS 2	flare / solder / solder	-	-	1/2	
RFK-24019	71205004402	TN 2	flare / flare	1/2	-	-	
RFK-24020	71200003102	TEN 2	flare / flare / flare	1/2	-	-	
RFK-24021	10201000102	TN 2	flare / solder	-	12	-	R134a
RFK-24022	10202000102	TEN 2	flare / solder / solder	-	12	-	2.1
RFK-24023	71201000102	TN 2	flare / solder	-	-	1/2	
RFK-24024	71201000202	TEN 2	flare / solder / solder	-	-	1/2	



Valve Body - Connection Type: Flare / Flare / Flare



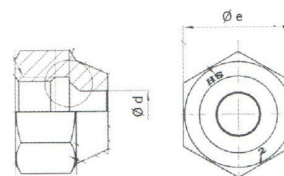
Valve Body - Connection Type: Flare / Solder / Solder



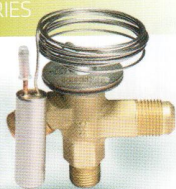
CE RoHS

Part number	Order number	SAE Flare Ø _e	Solder Connection Ø d
RFK-24044	71200002302	3/8"	3/8"
RFK-24045	71200002402		10 mm
RFK-24048	20200000202		1/4"
RFK-24049	20200000302		6 mm

Part number	Order number	SAE Flare øe	Solder Connection ød
RFK-24046	712000002502	1/4"	6 mm
RFK-24047	712000002602		1/4"



Part number	Order number	SAE Flare [inch]	Pipe Diameter Ø d	
			[mm]	[inch]
RFK-24050	20165119202	1/4	6	1/4
RFK-24051	20165119302	3/8	-	3/8
RFK-24052	20165119402	1/2	12	1/2



REFRIGERANT
R22, R407C, R404A,
R507, R134a, R404A,
R410A, R407A, R407F

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



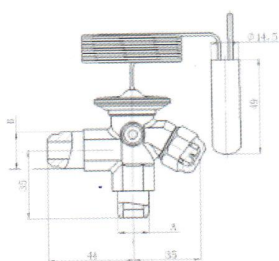
DECLARATION OF
CONFORMITY:
Pressure Equipment
Directive 2014/68/EU

TECHNICAL PARAMETERS

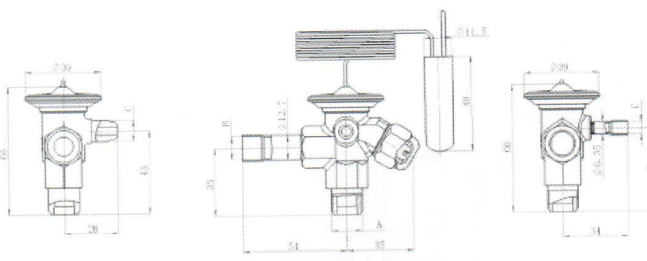
Tab. A : Models with Field N : Temperature Range from -40°C to +10°C

Ref.	Model Valve Body	Order number	Connection type	Inlet ØA	Outlet ØB		Ext. ØC	
			In / Out / Ext. Pressure Equal.	Flare	Solder		Flare	Solder
				[inch]	[inch]	[mm]	[inch]	[mm]
R22	RFKH 01-6.0-22	10201002502	flare / flare		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	3/8	-	12	-	6
	RFKH01-6.0-07	10201002202	flare / solder		-	-	-	-
R407C	RFKH01E-6.0-08	10201002302	flare / solder / solder		-	-	1/2	-
	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	3/8	-	12	-	6
R404A / R507A	RFKH02-6.3-32	10201003202	flare / solder		-	-	1/2	-
	RFKH02E-6.3-18	10201002702	flare / solder / solder		-	-	1/2	-
	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	-
	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		-	12	-	-
	RFKH04E-2.9-17	10201004302	flare / solder / solder	3/8	-	12	-	6
	RFKH04-2.9-30	10201004302	flare / solder		-	-	1/2	-
	RFKH04E-2.9-31	10201004402	flare / solder / solder		-	-	1/2	-
	RFKH05-6.8-66	10201005702	flare / flare		1/2	-	-	-
R407A / R407F	RFKH05E-6.8-33	10201005202	flare / flare / flare		1/2	-	-	1/4
	RFKH05-6.8-37	10201005602	flare / solder	3/8	-	12	-	-
	RFKH05E-6.8-36	10201005502	flare / solder / solder		-	12	-	6
	RFKH05-6.8-35	10201005402	flare / solder		-	-	1/2	-
	RFKH05E-6.8-34	10201005302	flare / solder / solder		-	-	1/2	-
R407A / R407F	RFKH07-6.0-43	10201004802	flare / flare		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	3/8	-	12	-	6
	RFKH07-6.0-45	10201005002	flare / solder		-	-	1/2	-
	RFKH07E-6.0-46	10201005102	flare / solder / solder		-	-	1/2	-

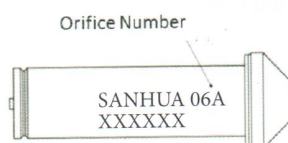
DIMENSIONS



Valve Body - Connection Type: flare/flare/flare



Valve Body - Connection Type: flare/solder/solder



ORIFICE

Valve Orifice Model	Order number	Orifice Number	Nominal Capacity* [kW]					
			R22	R407C	R404A R507A	R134a	R410A	R407A R407B
RFKH-023-0X	10202001702	0X	1.0	1.0	0.7	0.69	1.1	1.0
RFKH-023-00	10202001002	0	1.9	2.1	1.4	1.2	2.2	1.8
RFKH-023-01	10202001102	1	3.8	4.0	2.8	2.1	4.5	3.7
RFKH-023-02	10202001202	2	5.1	5.4	4.0	2.7	5.6	5.1
RFKH-023-03	10202001302	3	8.6	9.2	6.8	4.4	10.0	8.6
RFKH-023-04	10202001402	4	13.2	13.9	10.8	6.5	15.2	13.4
RFKH-023-05	10202001502	5	18.1	18.5	14.1	8.6	19.1	17.6
RFKH-023-06	10202001602	6	21.3	22.1	16.8	10.3	24.0	21.2

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

Part number	Order number ¹⁾	SAE Flare Ø e	Solder Connection Ø d
RFK-24044	71200002302	3/8"	3/8"
RFK-24045	71200002402		10mm
RFK-24048	20200000202		1/4"
RFK-24049	20200000302		6mm

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

SOLDER ADAPTERS FOR RFKH EXTERNAL PRESSURE EQUALIZATION C

Part number	Order number ¹⁾	SAE Flare Ø e	Solder Connection Ø d
RFK-24046	71200002502	1/4"	6mm
RFK-24047	71200002602		1/4"

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

FLARE NUTS FOR RFKH

Part number	Order number	SAE Flare	Pipe Diameter Ø d		Wrench Size Ø e
		[inch]	[mm]	[inch]	[mm]
RFK-24050	20165119202	1/4	6	1/4	17
RFK-24051	20165119302	3/8	-	3/8	22
RFK-24052	20165119402	1/2	12	1/2	24

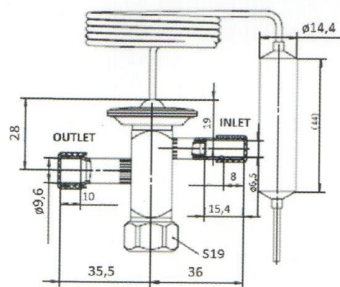
Thermostatic Expansion Valve

RFGB SERIES

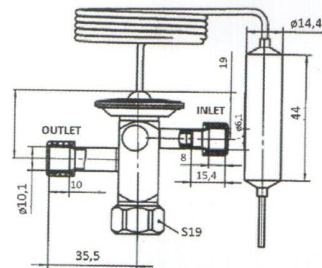
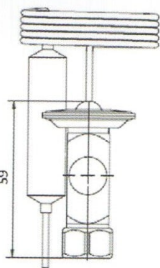


RFGB series thermostatic expansion valves are used to adjust mass flow of refrigerant into the evaporator while controlling the refrigerant's superheat at the outlet of the evaporator. They can be used for various refrigerants under all working conditions. Typical applications are refrigeration systems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

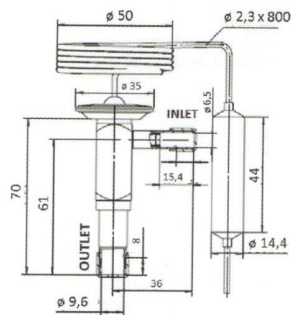
DIMENSIONS



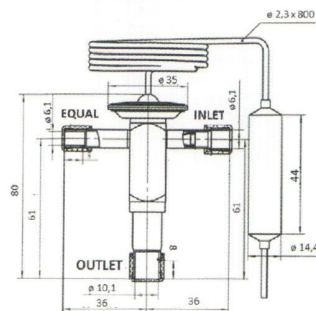
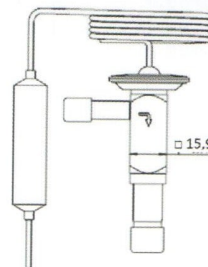
Straight Shape with Internal Pressure Equalization



Straight Shape with External Pressure Equalization



Angle Shape with Internal Pressure Equalization



Angle Shape with External Pressure Equalization

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)

TECHNICAL DATA

R22 PS: 2.8 MPa			R407C ³⁾ PS: 2.8 MPa			R404A / R507A PS: 3.5 MPa			R134a PS: 2.1 MPa		
Model Name ⁴⁾	Capacity [USRT]	[kW]	Model Name ⁴⁾	Capacity [USRT]	[kW]	Model Name ⁴⁾	Capacity [USRT]	[kW]	Model Name ⁴⁾	Capacity [USRT]	[kW]
RFGB 01-1	0.48	1.7	RFGB 02-1	0.48	1.7	RFGB 03-1	0.34	1.2	RFGB 04-1	0.31	1.1
RFGB 01E-1			RFGB 02E-1			RFGB 03E-1			RFGB 04E-1		
RFGB 01-2	0.82	2.9	RFGB 02-2	0.85	3.0	RFGB 03-2	0.65	2.3	RFGB 04-2	0.43	1.5
RFGB 01E-2			RFGB 02E-2			RFGB 03E-2			RFGB 04E-2		
RFGB 01-3	1.4	4.8	RFGB 02-3	1.4	5.0	RFGB 03-3	1.2	4.3	RFGB 04-3	0.77	2.7
RFGB 01E-3			RFGB 02E-3			RFGB 03E-3			RFGB 04E-3		
RFGB 01-4	2.0	6.9	RFGB 02-4	2.0	7.2	RFGB 03-4	1.8	6.4	RFGB 04-4	1.1	4.0
RFGB 01E-4			RFGB 02E-4			RFGB 03E-4			RFGB 04E-4		
RFGB 01-5	2.3	8.1	RFGB 02-5	2.4	8.4	RFGB 03-5	2.1	7.5	RFGB 04-5	1.3	4.6
RFGB 01E-5			RFGB 02E-5			RFGB 03E-5			RFGB 04E-5		

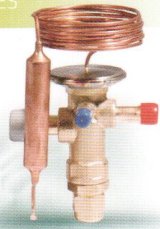
Note: 1) Nominal capacity valid for: - Version "S" in straight shape and version "A" in angle shape
- Versions with metrical and imperial connections
2) Nominal working conditions: Condensing temperature: 38°C; evaporating temperature +4.4°C;
Liquid temperature 37°C
3) R407C data based on dew point conditions
4) Model Name in this table is referred to the first 4 positions of the model designation



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Thermostatic Expansion Valve

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.

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

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

PS
45 bar



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TECHNICAL DATA Nominal Capacities¹

R22 PS: 2,8 MPa			R407C ² PS: 2,8 MPa			R404A / R507A PS: 3,5 MPa			R134a PS: 2,1 MPa			R410A PS: 4,5 MPa		
Model Name ³	Capacity [USRT]	[kW]	Model Name ³	Capacity [USRT]	[kW]	Model Name ³	Capacity [USRT]	[kW]	Model Name ³	Capacity [USRT]	[kW]	Model Name ³	Capacity [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

Model Name								
Ref	MWP [MPa]	Valve Body	Capacity Size All Sizes	Connections IN x OUT		Pressure Equal. [inch]	Product Number	Order number
				Imperial	[inch]			
R407C	2.8	RFGD 02E	1 -	3	3/8 x 5/8	1/4	RFGD 02E-3.1-33	10205008402
			2 -	4	1/2 x 7/8	1/4	RFGD 02E-4.2-34	10205007002
			3 -	4	1/2 x 7/8	1/4	RFGD 02E-6.3-35	10205008502
			4 -	4	1/2 x 7/8	1/4	RFGD 02E-8.1-36	10205007802
			5 -	5	5/8 x 7/8	1/4	RFGD 02E-9.4-37	10205007902
			6 -	5	5/8 x 7/8	1/4	RFGD 02E-11.7-38	10205008002
R404A / R507	3.5	RFGD 03E	1 -	3	3/8 x 5/8	1/4	RFGD 03E-2.0-39	10205008102
			2 -	4	1/2 x 7/8	1/4	RFGD 03E-2.8-40	10205008202
			3 -	4	1/2 x 7/8	1/4	RFGD 03E-4.2-41	10205008302
			4 -	4	1/2 x 7/8	1/4	RFGD 03E-5.4-42	10205008602
			5 -	5	5/8 x 7/8	1/4	RFGD 03E-6.4-43	10205008702
			6 -	5	5/8 x 7/8	1/4	RFGD 03E-7.8-44	10205008802
R134a	2.1	RFGD 04E	1 -	3	3/8 x 5/8	1/4	RFGD 04E-1.8-01	71205002802
			2 -	4	1/2 x 7/8	1/4	RFGD 04E-2.5-02	71205002902
			3 -	4	1/2 x 7/8	1/4	RFGD 04E-3.6-03	71205003002
			4 -	4	1/2 x 7/8	1/4	RFGD 04E-4.6-04	71205003102
			5 -	5	5/8 x 7/8	1/4	RFGD 04E-5.5-49	10205008902
			6 -	5	5/8 x 7/8	1/4	RFGD 04E-6.8-32	10205004402
R410A	4.5	RFGD 05E	1 -	3	3/8 x 5/8	1/4	RFGD 05E-3.5-22	10205002502
			2 -	4	1/2 x 7/8	1/4	RFGD 05E-4.5-23	10205002702
			3 -	4	1/2 x 7/8	1/4	RFGD 05E-7.0-24	10205002802
			4 -	4	1/2 x 7/8	1/4	RFGD 05E-8.6-25	10205002902
			5 -	5	5/8 x 7/8	1/4	RFGD 05E-10.6-27	10205003102
			6 -	5	5/8 x 7/8	1/4	RFGD 05E-12.8-26	10205003002

Ball Valve

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.

CE RoHS PED & UL

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

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

PS
45 bar



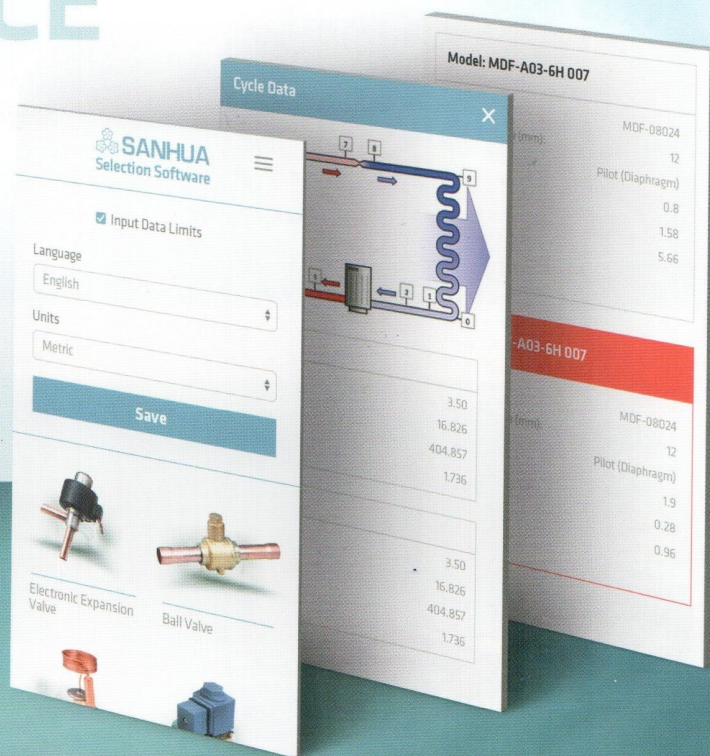
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Part Number	Order number	Connection (inch)	Connection (mm)	Kv (m³/h)	Part Number	Order number	Connection (inch)	Connection (mm)	Kv (m³/h)
Without access fitting					With access fitting				
SBV-13001	10150053902	-	6	1,9	SBV-13019	10150056702	-	6	1,9
SBV-13002	10150058302	1/4	-	1,9	SBV-13020	10150058402	1/4	-	1,9
SBV-13003	10150053702	3/8	-	5,5	SBV-13039	10150053802	3/8	-	5,5
SBV-13004	10150057302	-	10	5,5	SBV-13021	10150056802	-	10	5,5
SBV-13005	10150057402	-	12	10,2	SBV-13022	10150057502	-	12	10,2
SBV-13006	10150054102	1/2	-	10,2	SBV-13023	10150054002	1/2	-	10,2
SBV-13007	10150057602	-	15	13,2	SBV-13024	10150057702	-	15	13,2
SBV-13008	10150053302	5/8	16	13,8	SBV-13025	10150053402	5/8	16	13,8
SBV-13009	10150054602	-	18	19,5	SBV-13026	10150054502	-	18	19,5
SBV-13010	10150054302	3/4	-	19,5	SBV-13027	10150054202	3/4	-	19,5
SBV-13011	10150053502	7/8	22	28	SBV-13028	10150053602	7/8	22	28
SBV-13012	10150055102	-	28	51,5	SBV-13029	10150055202	-	28	51,5
SBV-13013	10150054702	1 1/8	-	51,5	SBV-13030	10150054802	1 1/8	-	51,5
SBV-13014	10150055002	1 3/8	35	80	SBV-13031	10150054902	1 3/8	35	80
SBV-13015	10150055502	1 5/8	-	119,8	SBV-13040	10150055402	1 5/8	-	119,8
SBV-13016	10150055302	-	42	119,8	SBV-13032	10150057802	-	42	119,8
SBV-13017	10150055702	2 1/8	54	225	SBV-13033	10150055802	2 1/8	54	225
SBV-13018	10150055902	-	64	225	SBV-13034	10150056002	-	64	225
SBV-13019	10150056302	2 5/8	-	305	SBV-13035	10150056402	2 5/8	-	305
SBV-13020	10150056502	3 1/8	80	635	SBV-13036	10150056602	3 1/8	80	635
SBV-13021	10150057002	3 5/8	92	805	SBV-13043	10150056902	3 5/8	92	805
SBV-13022	10150056102	4 1/8	105	950	SBV-13045	10150056202	4 1/8	105	950
SBV-13023	10150057102	4 1/4	108	950	SBV-13044	10150057202	4 1/4	108	950

WE ANNOUNCE SELECTION TOOL APP

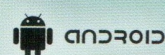


This app offers you suggestions for the **selection of refrigeration and air-conditioning components** based on the user's requirements or on standard operating conditions in common refrigeration and A/C system.

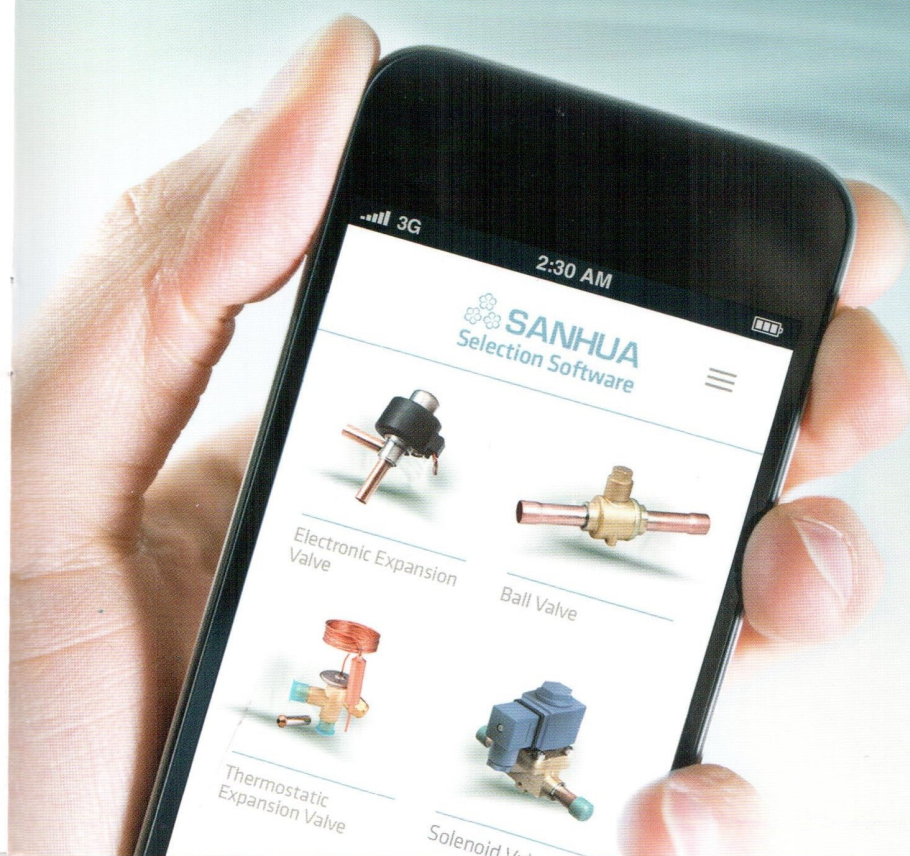


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- ✓ DPFe-VPF series from 2kW to 1400 kW
*75kW and 1400kW available in Quarter 4
- ✓ Advanced MSS (Minimum Stable Superheat) control logic



2 kW

1400kW

Ball Valve

APPLICABLE
FOR R744 (CO₂)

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

MAX. OPERATING
PRESSURE PS:
4,5 MPa (45 bar)

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

CERTIFICATIONS:
PED declaration



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CBV SERIES



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

GENERAL CHARACTERISTICS

Part number	Order number ¹⁾	Connection Ø d ODF		Kv [m ³ /h]	Wrench Size Cap [mm]	PED Category
		[inch]	[mm]			
CBV02-002	10150074202	-	6	1,9	H14	3.3
CBV02-001	10150074102	1/4	-	1,9	H14	3.3
CBV03-001	10150074302	3/8	-	5,5	H14	3.3
CBV03-002	10150074402	-	10	5,5	H14	3.3
CBV04-002	10150074602	-	12	10,2	H14	3.3
CBV04-001	10150074502	1/2	-	10,2	H14	3.3
CBV05-001	10150074702	5/8	-	13,8	H14	3.3
CBV06-002	10150074902	-	18	19,5	H17	3.3
CBV06-001	10150074802	3/4	-	19,5	H17	3.3
CBV07-001	10150063002	7/8	-	28,0	H17	3.3
CBV09-002	10150075002	-	28	51,5	H17	3.3
CBV09-001	10150062902	1 1/8	-	51,5	H17	3.3
CBV11-001	10150075102	1 3/8	-	80,0	H17	I
CBV13-002	10150062802	1 5/8	-	119,8	H17	I
CBV13-003	10150075202	-	42	119,8	H17	I
CBV17-001	10150075302	2 1/8	-	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

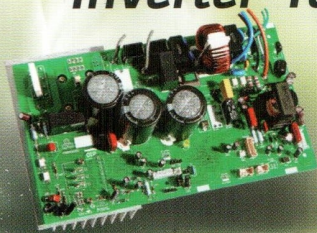


Piston type check valves are
designed for installation in
commercial refrigerating
systems and in residential
or industrial air conditioning
plants. They are used to
control the unidirectional
flow of refrigerant so as to
prevent backflow.

Part number	Order number	Type	Connection Ø ODF		Kv [m ³ /h]
			[in]	[mm]	
YCV-15001	10160030202	straight-way	-	6	0,56
YCV-15002	10160024502	straight-way	1/4	-	0,56
YCV-15007	10160024602	straight-way	3/8	-	1,43
YCV-15008	10160030502	straight-way	3/8	-	1,43
YCV-15009	10160031302	straight-way	-	10	1,43
YCV-15010	10160033202	straight-way	-	10	1,43
YCV-15015	10160023802	straight-way	-	12	2,1
YCV-15016	10160029102	straight-way	-	12	2,1
YCV-15017	10160023902	straight-way	1/2	-	2,1
YCV-15018	10160024802	straight-way	1/2	-	2,1
YCV-15021	10160024002	straight-way	5/8	-	3,9
YCV-15022	10160024902	straight-way	5/8	-	3,9
YCV-15027	10160024202	straight-way	-	18	5,52
YCV-15028	10160036902	straight-way	-	18	5,52
YCV-15029	10160024102	straight-way	3/4	-	5,52
YCV-15030	10160028202	straight-way	3/4	-	5,52
YCV-15051	10160025002	straight-way	7/8	-	5,52
YCV-15052	10160037502	straight-way	7/8	-	5,52
YCV-15033	10160030002	L-shape	7/8	-	13,2
YCV-15034	10160034602	L-shape	7/8	-	13,2
YCV-15039	10160037202	L-shape	-	28	19,02
YCV-15040	10160023702	L-shape	-	28	19,02
YCV-15041	10160030102	L-shape	1 1/8	-	19,02
YCV-15042	10160034702	L-shape	1 1/8	-	19,02
YCV-15045	10160024402	L-shape	1 3/8	-	29,1
YCV-15046	10160037402	L-shape	1 3/8	-	29,1
YCV-15047	10160037002	L-shape	1 5/8	-	29,1
YCV-15048	10160037102	L-shape	1 5/8	-	29,1
YCV-15049	10160032402	L-shape	-	42	29,1
YCV-15050	10160042302	L-shape	-	42	29,1

CE RoHS

Every second A/C system
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Inverter Technology



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- ✓ **Active Frequency** Conversion Technology
- ✓ Wide Range of voltage application



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, R744, R407A/F, R1234ze

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

PS 46 bar

FEMALE / FEMALE

Part number	Order number	Connection Type	Connections ODF	
			Ød (inch)	Ød (mm)
SVJ-42020	10285007102	ODF x ODF Solder	-	6
SVJ-42021	10285007002	ODF x ODF Solder	1/4	-
SVJ-42022	10285007202	ODF x ODF Solder	3/8	-
SVJ-42023	10285007302	ODF x ODF Solder	-	10
SVJ-42024	10285006902	ODF x ODF Solder	1/2	-
SVJ-42025	10285007402	ODF x ODF Solder	-	12
SVJ-42026	10285007502	ODF x ODF Solder	5/8	16
SVJ-42027	10285007602	ODF x ODF Solder	3/4	-
SVJ-42028	10285007702	ODF x ODF Solder	7/8	22

MALE / FEMALE

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

MALE / MALE

Part number	Order number	Connection Type	SAE Flare	
			Ød (inch)	Ød (mm)
SVJ-42029	10285007902	Flare M x M	1/4	-
SVJ-42030	10285008102	Flare M x M	3/8	-
SVJ-42031	10285008302	Flare M x M	1/2	-
SVJ-42032	10285008502	Flare M x M	5/8	-
SVJ-42033	10285008702	Flare M x M	3/4	-



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CE RoHS PED

Brass Service Valve

SSV SERIES



CE RoHS

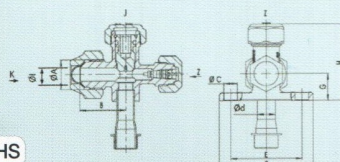
REFRIGERANT

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



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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

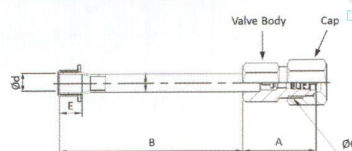
R22, R134a, R404A, R407C, R410A, R507A

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

PS 45 bar

Part number	Order number	A	B	C Flare Ø	D solder Ø	E
		mm	mm	in	mm	in
*TCJ-14001	10155004802	26	65	7/16-20	6.35	1/4
TCJ-14002	10155001502	26	65	1/2-20	6.35	1/4
*TCJ-14003	10155010302	26	-	7/16-20	-	-
TCJ-14004	10155009202	26	-	1/2-20	-	-

*Only for R22



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

CE RoHS PED

ADVANCED
Technology & Solutions

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



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.

REFRIGERANT

R22, R134a, R404A, R407C,
R410A, R507A

FILTRATION 20 μm

LARGE TEMPERATURE

LARGE TEMPERATURE

SERVICE RANGE -30°C to +120°C

PS 48.3 bar

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

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

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

Part number	Order number	Capacity [kW]					Moisture Absorption (gram H ₂ O)										Connection SAC Fails (inch)
		R134a	R404A/ R507A	R22	R407C	R410A	R134a		R404A/ R507A		R407C/R410A		R22				
							75°F 23.9°C	51.7°F 10.9°C	75°F 23.9°C	51.7°F 10.9°C	75°F 23.9°C	51.7°F 10.9°C	75°F 23.9°C	51.7°F 10.9°C			
DTC-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	3.7	3.4	1/4
DTC-30002	10230009201	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	3.7	3.4	3/8
DTC-30155	10230009002	24.6	17.2	25	24.6	25	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	3.7	3.4	1/2
DTC-30003	10230009001	8.4	6	8.4	8.4	8.4	11.6	10.9	17.7	10.2	10.9	9.5	11.4	10.9	11.4	10.9	3/8
DTC-30004	10230009000	23.3	16.9	24.4	24.4	24.4	11.6	10.9	17.7	10.2	10.9	9.5	11.4	10.9	11.4	10.9	3/8
DTC-30005	10230010100	8.4	6	8.4	8.4	8.4	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	15.5	13.1	3/8
DTC-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	15.5	13.1	1/2
DTC-30007	102300101001	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	15.5	13.1	1/2
DTC-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	20.9	17.7	1/2
DTC-30009	10230011501	25.7	17.9	26.4	25.7	26.4	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	20.9	17.7	1/2
DTC-30010	10230011902	32.4	22.9	33.2	32.7	33.8	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	20.9	17.7	1/2
DTC-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	20.9	17.7	1/2
DTC-30012	10230013101	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	20.9	17.7	3/4
DTC-30013	10230015402	25.7	17.9	26.4	25.7	26.4	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	52.1	44.1	3/8
DTC-30014	10230015101	13.1	9.2	13.8	13.4	14.1	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	52.1	44.1	1/2
DTC-30015	10230015702	57.7	32	46.4	46.1	46.8	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	52.1	44.1	3/4
DTC-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	52.1	44.1	3/4
DTC-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	52.1	44.1	3/4
DTC-30018	10230013301	35.2	24.6	35.5	35.2	36.2	63.7	59.7	103.5	63.7	59.7	63.7	59.7	63.7	59.7	63.7	7/8
DTC-30019	10230013302	60.8	42.9	61.9	61.5	62.6	63.7	59.7	103.5	63.7	59.7	63.7	59.7	63.7	59.7	63.7	1/2

Part number	Order number	Capacity [kW]					Moisture Absorption (gram H ₂ O)										Connector (inch)
		R134a	R404A/ R507A	R22	R407C	R410A	R134a		R404A/R507A	R407C/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					
DTG-30020	10230008302	77	6.7	8.1	8.1	8.1	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	3.1	3.7	1/4
DTG-30021	10230008402	95	6.7	9.5	9.5	9.8	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	3.1	3.7	5/16
DTG-30022	10230008502	144	10.6	14.8	14.8	14.8	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	3.1	3.7	3/4
DTG-30023	10230008602	246	17.2	25	24.6	25	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	3.1	3.7	1 1/2
DTG-30024	10230010202	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	11.4	9.7	1/4
DTG-30025	10230010402	10.9	7.4	10.9	10.9	11.3	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	11.4	9.7	3/8
DTG-30026	10230010502	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	11.4	9.7	1/2
DTG-30027	10230010602	31.7	23.5	31.7	31.7	31.7	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	11.4	9.7	5/8
DTG-30028	10230010702	34.8	24.6	35.5	35.2	35.9	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	11.4	9.7	1 1/2
DTG-30029	10230009502	8.4	6	8.4	8.4	8.4	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	14.8	13	1/4
DTG-30030	10230009402	11.6	8.1	12	11.6	12	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	14.8	13	5/16
DTG-30031	10230009302	15	21.6	25.3	25	25.7	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	14.8	13	3/8
DTG-30032	10230009602	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	14.8	13	1 1/2
DTG-30033	10230009702	44.7	31.7	45	44.6	44.8	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	14.8	13	5/8
DTG-30034	10230010202	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	14.8	13	1/4
DTG-30035	10230012102	11.6	8.1	12	11.6	12	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	14.8	13	5/16
DTG-30036	10230012202	25.7	17.9	26	26	26.4	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	14.8	13	3/8
DTG-30037	10230012302	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	14.8	13	1 1/2
DTG-30038	10230012402	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	14.8	13	5/8
DTG-30039	10230012502	46.4	32.7	45.8	45.8	47.8	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	14.8	13	5/8
DTG-30040	10230012602	47.1	33.4	48.2	47.8	48.5	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	14.8	13	1 1/2
DTG-30041	10230013902	25.7	17.9	26	26	26.4	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	51.4	44.1	1/2
DTG-30042	10230014002	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	51.4	44.1	3/4
DTG-30043	10230014102	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	51.4	44.1	1 1/2
DTG-30044	10230014202	62.6	44	63.7	63.3	64.6	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	51.4	44.1	5/8
DTG-30045	10230014302	74.4	44.3	75.3	74.9	76.4	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	51.4	44.1	1 1/2
DTG-30046	10230014402	70.7	52.1	75.3	74.6	76	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	51.4	44.1	1 1/2
DTG-30047	10230012302	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	70.2	59.4	1/2
DTG-30048	10230013302	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	70.2	59.4	1 1/2
DTG-30049	10230013402	90.4	63.7	91.8	91.4	92.8	63.7	59.7	103.5	55.7	63.7	58.9	70.2	59.4	70.2	59.4	5/8
DTG-30050	10230013502	92.1	64	92.8	92.4	93.8	63.7	59.7	103.5	55.7	63.7	58.9	70.2	59.4	70.2	59.4	1 1/2
DTG-30051	10230013602	91.4	64	92.8	91.8	93.9	123.3	115.6	200.3	107.9	123.3	114	135.8	114.9	135.8	114.9	1 1/2
DTG-30052	10230015002	95.3	67.2	97.1	96.4	98.1	123.3	115.6	200.3	107.9	123.3	114	135.8	114.9	135.8	114.9	1 1/2

Part number	Order number	Capacity [kW]					Moisture Absorption (gram H ₂ O)												Connect. Solder (mm)
		R134a	R404A/R507A	R22	R407C	R410A	R134a		R404A/R507A		R407C/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					
DTG-30053	102300088702	77	6.7	8.1	8.1	8.1	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	6				
DTG-30054	102300088702	95	6.7	9.5	9.5	9.8	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	8				
DTG-30055	102300088802	144	10.6	14.8	14.8	14.8	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	10				
DTG-30056	102300088902	246	17.2	25	24.6	25	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	12				
DTG-30057	102300108002	8.9	6	8.4	8.4	8.4	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	6				
DTG-30025	102300104002	10.4	74	10.9	10.9	11.3	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	8				
DTG-30059	102300109002	25.3	16.9	31.3	31.6	31.6	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	10				
DTG-30060	102300110002	35.3	17.9	25.7	25.7	26	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	12				
DTG-30054	102300110102	24.8	24.6	35.5	35.2	35.9	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	16				
DTG-30061	102300130002	8.6	6	8.4	8.4	8.4	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	6				
DTG-30030	102300094002	11.6	8.1	12	11.6	12	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	10				
DTG-30063	102300114002	25	17.6	25.3	25	25.7	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	12				
DTG-30064	102300114002	36	21.3	31.3	31.7	31.7	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	16				
DTG-30062	102300121002	44.7	31.7	45.7	45.4	45.1	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	12				
DTG-30065	102300127002	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	6				
DTG-30035	102300121002	11.6	8.1	12	11.6	12	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	8				
DTG-30067	102300128002	25.7	22.9	33.1	32.7	33.8	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	10				
DTG-30066	102300159002	32.4	27.3	39.1	38.7	39.6	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	12				
DTG-30068	102300130002	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	16				
DTG-30040	102300126002	47.1	33.4	48.2	47.8	48.5	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	22				
DTG-30069	102300145002	25.7	17.9	26	26	26.4	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	10				
DTG-30070	102300146002	33.1	23.2	33.8	33.4	34.1	51.4	48.7	83.4	51.3	51.3	43.7	52.1	44.1	12				
DTG-30075	102300147002	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	22				
DTG-30045	102300143002	61	42	49.8	49.4	50.7	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	18				
DTG-30071	102300144002	70.7	52.1	75.3	74.6	76	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	28				
DTG-30072	102300136002	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	12				
DTG-30058	102300137002	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	16				
DTG-30049	102300134002	90.4	63.7	91.8	91.4	92.8	63.7	59.7	103.5	55.7	63.7	58.9	70.2	59.4	24				
DTG-30073	102300138002	92.1	64.7	96.6	92.8	93.7	63.7	59.7	103.5	55.7	63.7	58.9	70.2	59.4	28				
DTG-30051	102300139002	91.8	64.7	91.8	91.8	93.9	123.3	115.6	200.3	107.9	123.3	114	135.8	114.9	22				
DTG-30074	102300151002	65.3	67.2	92.1	96.4	98.1	123.3	115.6	200.3	107.9	123.3	114	135.8	114.9	28				

* Also Available composed of 80% 3A dessicant and 20% active alumina visit sanhuaclimate.com



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

CE RoHS

UL CSA PED

Bi-Flow Filter Drier

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/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

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

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

FILTRATION
20 µm

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

PS
48.3 bar

SOLID FILTER CORE*

Part number	Order number	Capacity [kW] 1)					Moisture Absorption (gram H ₂ O)										Connection SAE Flare (inch)
		R134a	R404A/R507A	R22	R407C2)	R410A	R134a 75°F 23.9°C	R134a 125°F 51.7°C	R404A/R507A 75°F 23.9°C	R404A/R507A 125°F 51.7°C	R407C2) 75°F 23.9°C	R407C2) 125°F 51.7°C	R410A 75°F 23.9°C	R410A 125°F 51.7°C	R22 75°F 23.9°C	R22 125°F 51.7°C	
STG-31001	10235009002	74	5.3	7.7	7.7	7.7	4.3	4	4.1	3.8	3.7	3.4	4.1	3.7	3.7	3.7	1/4
STG-31002	10235009102	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	3.7	3.7	3/8
STG-31003	10235009202	25	17.6	25.3	25	25.3	4.3	4	4.1	3.8	3.7	3.4	4.1	3.7	3.7	3.7	1/2
STG-31004	10235008702	8.8	6	8.8	8.8	8.8	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	8.5	1/4	3/8
STG-31005	10235008802	17.2	12	17.6	17.2	17.6	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	8.5	1/2	3/8
STG-31006	10235008902	25.7	17.9	26.4	26	26.4	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	8.5	1/2	3/8
STG-31007	10235009302	19.7	13.7	20	19.7	20	17.6	16.3	16.6	15.5	15.2	14	16.6	14.2	14.2	3/8	3/8
STG-31008	10235009402	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	14.2	1/2	3/8
STG-31009	10235008602	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	14.2	5/8	3/8
STG-31010	10235009502	25	17.6	25.3	25	25.7	41.3	38.4	38.9	36.5	35.9	32.9	39.1	33.1	33.1	3/8	1/2
STG-31011	10235009602	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	33.1	5/8	3/8
STG-31012	10235009702	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	33.1	5/8	3/8
STG-31013	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	33.1	3/4	3/4

Part number	Order number	Capacity [kW] 1)					Moisture Absorption (gram H ₂ O)										Connection solder (inch)
		R134a	R404A/R507A	R22	R407C2)	R410A	R134a 75°F 23.9°C	R134a 125°F 51.7°C	R404A/R507A 75°F 23.9°C	R404A/R507A 125°F 51.7°C	R407C2) 75°F 23.9°C	R407C2) 125°F 51.7°C	R410A 75°F 23.9°C	R410A 125°F 51.7°C	R22 75°F 23.9°C	R22 125°F 51.7°C	
STG-31014	10235005902	74	5.3	7.7	7.7	7.7	4.3	4	4.1	3.8	3.7	3.4	4.1	3.7	3.7	3.7	1/4
STG-31015	10235006002	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	3.7	3.7	3/8
STG-31016	10235006102	25	17.6	25.3	25	25.3	4.3	4	4.1	3.8	3.7	3.4	4.1	3.7	3.7	3.7	1/2
STG-31017	10235006202	8.8	6	8.8	8.8	8.8	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	8.5	1/4	3/8
STG-31018	10235007402	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	8.5	1/2	3/8
STG-31019	10235006302	17.2	12	17.6	17.2	17.6	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	8.5	1/2	3/8
STG-31020	10235006402	25.7	17.9	26.4	26	26.4	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	8.5	1/2	3/8
STG-31021	10235006502	19.7	13.7	20	19.7	20	17.6	16.3	16.6	15.5	15.2	14	16.6	14.2	14.2	3/8	3/8
STG-31022	10235006602	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	14.2	5/8	3/8
STG-31023	10235006702	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	14.2	5/8	3/8
STG-31024	10235006802	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	14.2	1/2	3/8
STG-31025	10235006902	25	17.6	25.3	25	25.7	41.3	38.4	38.9	36.5	35.9	32.9	39.1	33.1	33.1	1/2	3/8
STG-31026	10235007002	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	33.1	5/8	3/8
STG-31027	10235007102	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	33.1	5/8	3/8
STG-31028	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	33.1	3/4	3/8
STG-31029	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	33.1	7/8	3/8
STG-31030	10235007502	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	33.1	1 1/2	3/8

Part number	Order number	Capacity [kW] 1)					Moisture Absorption (gram H ₂ O)										Connection Solder (mm)
		R134a	R404A/R507A	R22	R407C2)	R410A	R134a 75°F 23.9°C	R134a 125°F 51.7°C	R404A/R507A 75°F 23.9°C	R404A/R507A 125°F 51.7°C	R407C2) 75°F 23.9°C	R407C2) 125°F 51.7°C	R410A 75°F 23.9°C	R410A 125°F 51.7°C	R22 75°F 23.9°C	R22 125°F 51.7°C	
STG-31031	10235007602	74	5.3	7.7	7.7	7.7	4.3	4	4.1	3.8	3.7	3.4	4.1	3.7	3.7	3.7	6
STG-31032	10235007802	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	3.7	3.7	10
STG-31033	10235007902	25	17.6	25.3	25	25.3	4.3	4	4.1	3.8	3.7	3.4	4.1	3.7	3.7	3.7	12
STG-31034	10235007702	8.8	6	8.8	8.8	8.8	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	8.5	8	6
STG-31035	10235007402	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	8.5	8	10
STG-31036	10235008002	17.2	12	17.6	17.2	17.6	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	8.5	10	12
STG-31037	10235008102	25.7	17.9	26.4	26	26.4	9.8	9	9.2	8.6	8.5	7.8	9.2	8.5	8.5	12	12
STG-31038	10235008202	19.7	13.7	20	19.7	20	17.6	16.3	16.6	15.5	15.2	14	16.6	14.2	14.2	10	10
STG-31039	10235008302	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	14.2	12	12
STG-31040	10235008402	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	14.2	16	16
STG-31041	10235008502	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	14.2	22	22
STG-31042	10235008602	25	17.6	25.3	25	25.7	41.3	38.4	38.9	36.5	35.9	32.9	39.1	33.1	33.1	10	10
STG-31043	10235008702	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	33.1	12	12
STG-31044	10235008802	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	33.1	16	16
STG-31045	10235008902	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	33.1	22	22
STG-31046	10235009002	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	33.1	28	28

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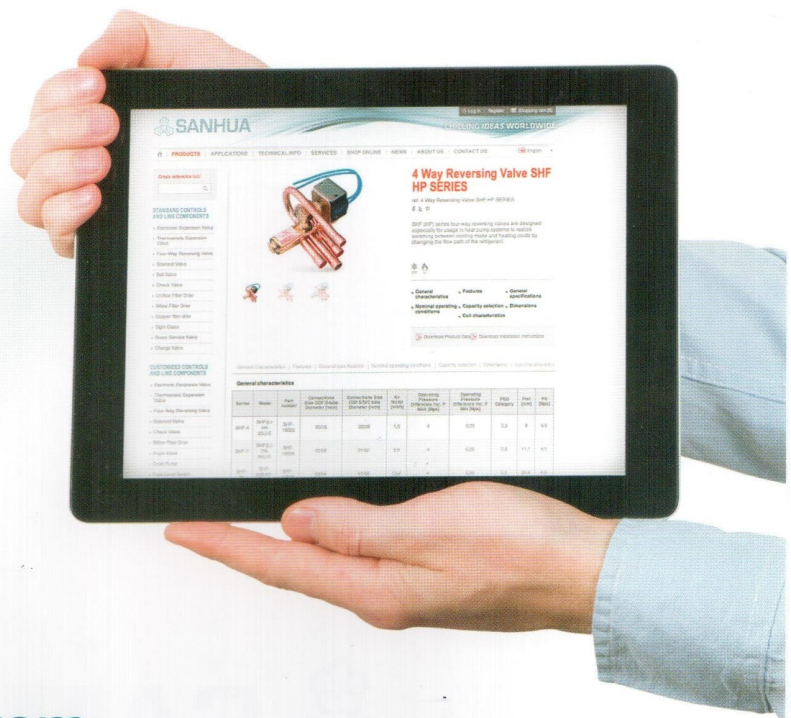
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