



Standard product

CATALOGUE

AIR
CONDITIONING

COMMERCIAL
REFRIGERATION

HEAT PUMP



1984-2024

SANHUA

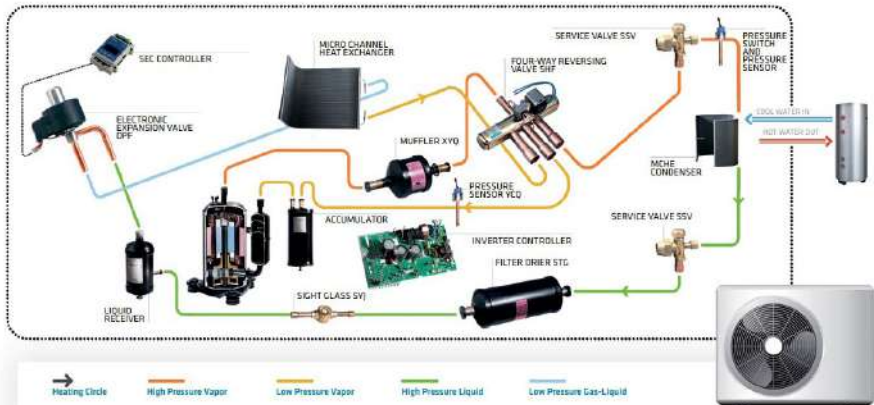
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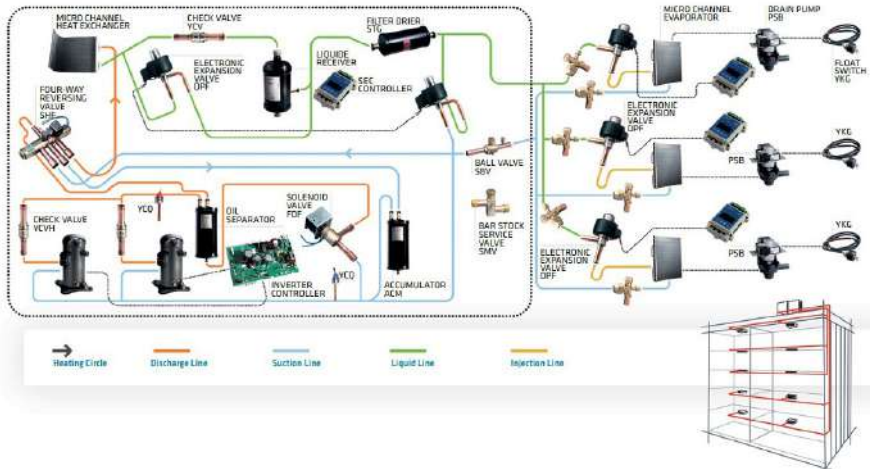
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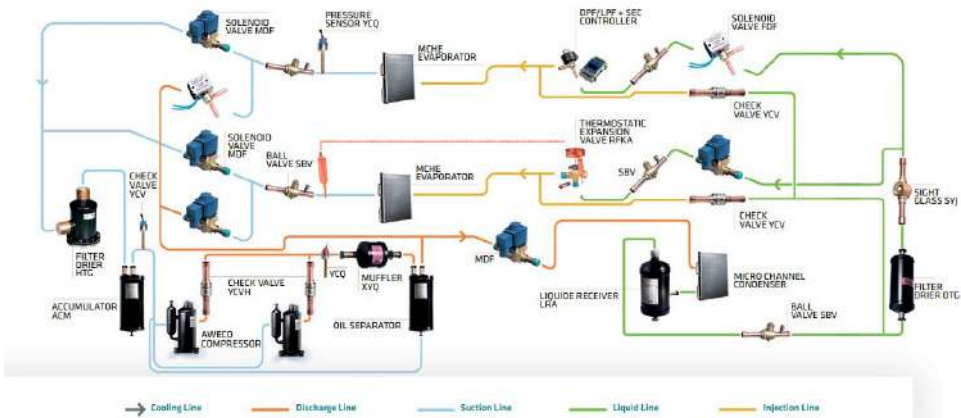
Heat Pump Application Solutions



COMMERCIAL AIR CONDITIONING VRF SYSTEM



Commercial Refrigeration Application Solutions



SUMMARY

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Note: Sanhua continuously develops its solutions therefore some products models numbers may be slightly different in this catalogue than current models on a stock. Contact Sanhua representative to learn more about details of Sanhua solutions. 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.

RFKH SERIES

Thermostatic Expansion Valve



REFRIGERANT
R407C, R404A, R507, R134a, R404A, R410A, R407A, R407F, R448A, R449A, R452A, R450A, R513A

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

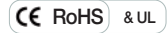
FEATURES

- Stainless steel capillary and sensing bulb
- Exchangeable valve orifice, easy to stock holding, convenient for capacity match and repair
- Thermal bulb utilizes cross charge technology, providing consistent superheat degree over the whole evaporation temperature range

- Valves with mop function can be provided to assure reliable compressor operation
- Applicable in a wide evaporation temperature range



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Pressure Equipment
Directive 2014/68/EU



TECHNICAL PARAMETERS

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

Ref.	Model Valve Body	Part Number ⁽⁴⁾	Connection type	Inlet ØA	Outlet ØB			Ext. ØC		
			In / Out / Ext. Pressure Equal.	Flare	Flare	Solder		Flare	Solder	
				[inch]	[inch]	[mm]	[inch]	[inch]	[inch]	[mm]
R22	RFKH01-6.0-22A	10201028802	flare / flare	3/8	1/2	-	-	-	-	-
	RFKH01E-6.0-13A	10201028902	flare / flare / flare		1/2	-	-	1/4	-	-
	RFKH01-6.0-26A	10201029202	flare / solder		-	12	-	-	-	-
	RFKH01E-6.0-06A	10201033302	flare / solder / solder		-	12	-	-	-	6
	RFKH01-6.0-07A	10201029102	flare / solder		-	-	1/2	-	-	-
	RFKH01E-6.0-08A	10201029002	flare / solder / solder		-	-	1/2	-	1/4	-
R407C	RFKH02-6.3-24A	10201037902	flare / flare	3/8	1/2	-	-	-	-	-
	RFKH02E-6.3-20A	10201040002	flare / flare / flare		1/2	-	-	1/4	-	-
	RFKH02-6.3-27A	10201029302	flare / solder		-	12	-	-	-	-
	RFKH02E-6.3-28A	10201033602	flare / solder / solder		-	12	-	-	-	6
	RFKH02-6.3-32A	10201029402	flare / solder		-	-	1/2	-	-	-
	RFKH02E-6.3-18A	10201033502	flare / solder / solder		-	-	1/2	-	1/4	-
R404A / R507A	RFKH03-4.8-21A	10201028402	flare / flare	3/8	1/2	-	-	-	-	-
	RFKH03E-4.8-15A	10201028502	flare / flare / flare		1/2	-	-	1/4	-	-
	RFKH03-4.8-03A	10201029702	flare / solder		-	12	-	-	-	-
	RFKH03E-4.8-02A	10201033902	flare / solder / solder		-	12	-	-	-	6
	RFKH03-4.8-09A	10201028702	flare / solder		-	-	1/2	-	-	-
RFKH03E-4.8-10A	10201027402	flare / solder / solder	-	-	1/2	-	1/4	-		
R134a	RFKH04-2.9-23A	10201038502	flare / flare	3/8	1/2	-	-	-	-	-
	RFKH04E-2.9-19A	10201040602	flare / flare / flare		1/2	-	-	1/4	-	-
	RFKH04-2.9-29A	10201030702	flare / solder		-	12	-	-	-	-
	RFKH04E-2.9-17A	10201035202	flare / solder / solder		-	12	-	-	-	6
	RFKH04-2.9-30A	10201030802	flare / solder		-	-	1/2	-	-	-
	RFKH04E-2.9-31A	10201035302	flare / solder / solder		-	-	1/2	-	1/4	-
R410A	RFKH05-7.6-66A	10201028002	flare / flare	3/8	1/2	-	-	-	-	-
	RFKH05E-7.6-33A	10201028302	flare / flare / flare		1/2	-	-	1/4	-	-
	RFKH05-7.6-37A	10201031002	flare / solder		-	12	-	-	-	-
	RFKH05E-7.6-36A	10201035502	flare / solder / solder		-	12	-	-	-	6
	RFKH05-7.6-35A	10201028102	flare / solder		-	-	1/2	-	-	-
	RFKH05E-7.6-34A	10201028202	flare / solder / solder		-	-	1/2	-	1/4	-
R455A / R454C	RFKH20-4.3-80A	10201039702	flare / flare	3/8	1/2	-	-	-	-	-
	RFKH20E-4.3-79A	10201042002	flare / flare / flare		1/2	-	-	1/4	-	-
	RFKH20-4.3-81A	10201032902	flare / solder		-	12	-	-	-	-
	RFKH20E-4.3-78A	10201037602	flare / solder / solder		-	12	-	-	-	6
	RFKH20-4.3-82A	10201033002	flare / solder		-	-	1/2	-	-	-
	RFKH20E-4.3-83A	10201037702	flare / solder / solder		-	-	1/2	-	1/4	-

For any other refrigerant compatible TXV, please contact Sanhua representative
Above TXV options available with MOP15 (+15 deg C) also.

- Note:**
- 1) Extent of delivery: valve body and bulb strap.
 - 2) Different evaporation temperature range on request.
 - 3) MOP function on request.
 - 4) Part Number is referred to Multi Pack.



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RFKH SERIES

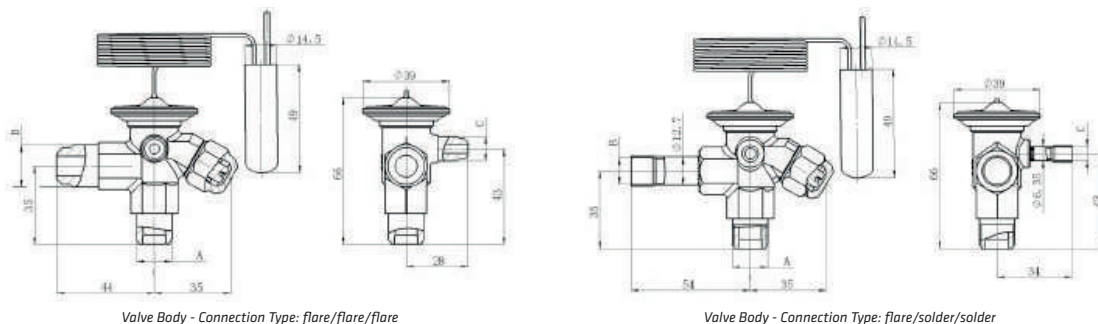
Thermostatic Expansion Valve

Tab. B: Models with Range B: Temperature Range from -60°C to -25°C [with MOP -20°C]

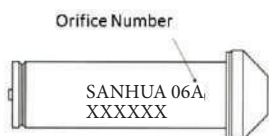
Ref.	Model Valve Body	Part Number ⁴⁾	Connection type	Inlet ØA	Outlet ØB			Ext. ØC		
			In / Out / Ext. Pressure Equal.	Flare	Flare	Solder		Flare	Solder	Solder
				[inch]	[inch]	[mm]	[inch]	[inch]	[inch]	[mm]
R404A / R507A	RFKH03-4.8-406A	10201038202	flare / flare	3/8	1/2	-	-	-	-	-
	RFKH03E-4.8-405A	10201040202	flare / flare / flare		1/2	-	-	1/4	-	-
	RFKH03-4.8-402A	10201045002	flare / solder		-	12	-	-	-	-
	RFKH03E-4.8-401A	10201034202	flare / solder / solder		-	12	-	-	-	6
	RFKH03-4.8-403A	10201030002	flare / solder		-	-	1/2	-	-	-
	RFKH03E-4.8-404A	10201034302	flare / solder / solder	-	-	1/2	-	1/4	-	

- Note:** 1) Extent of delivery: valve body and bulb strap.
2) Different evaporation temperature range on request.
3) MOP function on request.
4) Part Number is referred to Multi Pack.

DIMENSIONS



ACCESSORIES



ACCESSORIES ORIFICES

Orifice Number	Valve Orifice Model	Valve Orifice Part Number	Nominal Capacity ¹⁾ [kW]						
			R22	R407C	R404A R507A	R134a	R410A	R455A	R454C
0X	RFKH-023-0X	10202001702	1	1	0,7	0,69	1,3	0,6	0,6
0	RFKH-023-00	10202001002	1,9	2,1	1,4	1,2	2,5	1,3	1,2
1	RFKH-023-01	10202001102	3,8	4	2,8	2,1	5	2,5	2,4
2	RFKH-023-02	10202001202	5,1	5,4	4	2,7	6,2	3,5	3,3
3	RFKH-023-03	10202001302	8,6	9,2	6,8	4,4	11,2	6,0	5,8
4	RFKH-023-04	10202001402	13,2	13,9	10,8	6,5	17	9,8	9,4
5	RFKH-023-05	10202001502	18,1	18,5	14,1	8,6	21,3	12,6	12,2
6	RFKH-023-06	10202001602	21,3	22,1	16,8	10,3	26,8	15,1	14,5

- 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.
3) Nominal capacity based on
• Static Superheat (SS) 5K (for models without MOP) and 4K (for models with MOP).
• Opening Superheat(OS) 6K.

SOLDER ADAPTERS FOR RFKH INLET A

Model	Part number ¹⁾	SAE Flare Ø e	Solder Connection Ø d
RFK-A04-038010	20200001602	3/8"	3/8"
RFK-A04-038011	20201002502		10 mm
RFK-A04-038012	20201002602		1/4"
RFK-A04-038013	20201002702		6 mm

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

SOLDER ADAPTERS FOR RFKH EXTERNAL PRESSURE EQUALIZATION C

Model	Part number ¹⁾	SAE Flare Ø e	Solder Connection Ø d
RFKA-038-03	20201000502	1/4"	6 mm
RFKA-038-04	20201000602		1/4"

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

RFGD SERIES

Thermostatic Expansion Valve



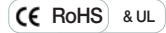
REFRIGERANT
R134a, R404A,
R407C, R410A, R507

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

PS
4.8 MPa



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FEATURES

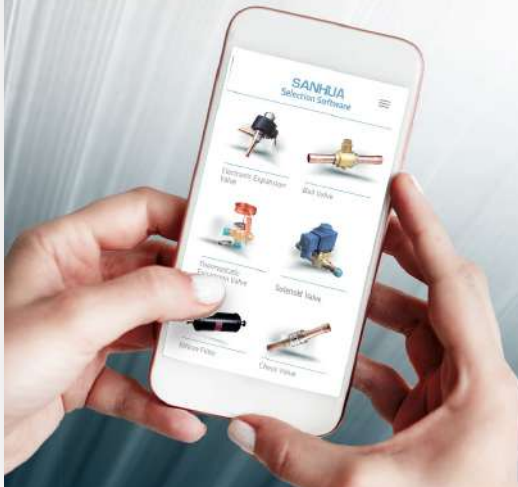
- Compact design with build-in orifice
 - Double diaphragm design
 - Warm thermo head construction
 - All connections pipes are completely in copper
 - Valves with mop function can be provided to assure reliable compressor operation
 - Applicable in a wide evaporation temperature range
 - Reliable and consistent performance of superheat control
- Balanced port – suitable for reversible cycles
 - Thermal bulb utilizes cross charge technology, providing consistent superheat degree over the whole evaporation temperature range
 - Wide capacities range split in 9 orifices sizes:
 - RFGD10: (orifices 1 to 6)
 - RFGD20: (orifices 7 to 9)

TECHNICAL DATA Nominal Capacities¹

R22			R407C ²⁾			R404A / R507			R134a			R410A		
Model Name ³⁾	Capacity		Model Name ³⁾	Capacity		Model Name ³⁾	Capacity		Model Name ³⁾	Capacity		Model Name ³⁾	Capacity	
	[USRT]	[kW]		[USRT]	[kW]		[USRT]	[kW]		[USRT]	[kW]		[USRT]	[kW]
RFGD 01(E)-1	3.0	10.6	RFGD 02(E)-1	2.5	8.8	RFGD 03(E)-1	2.0	7.0	RFGD 04(E)-1	1.5	5.3	RFGD 05(E)-1	3.5	12.3
RFGD 01(E)-2	4.0	14.1	RFGD 02(E)-2	3.5	12.3	RFGD 03(E)-2	2.5	8.8	RFGD 04(E)-2	2.5	8.8	RFGD 05(E)-2	4.5	15.8
RFGD 01(E)-3	6.0	12.1	RFGD 02(E)-3	5.0	17.6	RFGD 03(E)-3	4.0	14.1	RFGD 04(E)-3	3.5	12.3	RFGD 05(E)-3	6.5	22.9
RFGD 01(E)-4	7.5	26.4	RFGD 02(E)-4	7.0	24.6	RFGD 03(E)-4	5.0	17.6	RFGD 04(E)-4	4.5	15.8	RFGD 05(E)-4	9.0	31.7
RFGD 01(E)-5	9.0	31.7	RFGD 02(E)-5	8.5	29.9	RFGD 03(E)-5	6.0	21.1	RFGD 04(E)-5	5.5	19.3	RFGD 05(E)-5	11.0	38.7
RFGD 01(E)-6	11.0	38.7	RFGD 02(E)-6	10.0	35.2	RFGD 03(E)-6	7.5	26.4	RFGD 04(E)-6	7.0	24.6	RFGD 05(E)-6	13.0	45.7
RFGD 01(E)-7	12.0	42.2	RFGD 02(E)-7	12.0	42.2	RFGD 03(E)-7	9.0	31.7	RFGD 04(E)-7	8.0	28.1	RFGD 05(E)-7	15.0	52.8
RFGD 01(E)-8	15.0	52.8	RFGD 02(E)-8	15.0	52.8	RFGD 03(E)-8	11.0	38.7	RFGD 04(E)-8	10.0	35.2	RFGD 05(E)-8	19.0	66.8
RFGD 01(E)-9	18.0	63.3	RFGD 02(E)-9	18.0	63.3	RFGD 03(E)-9	13.0	45.7	RFGD 04(E)-9	12.0	42.2	RFGD 05(E)-9	23.0	80.9

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: 4 K.
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.

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RFGD Standard Range

A) Models with Imperial Connections
RFGD10 (orifice 1-6) -40°C to +10°C (Models without MOP)

Ref.	MWP [MPa]	Valve Body	Capacity Size All Sizes	Connections IN x OUT		Pressure Equal. [inch]	Model Name	Product Number U11 Code Multi-Pack
				Imperial	[inch]			
R407C	2,8	RFGD 02E -	1 -	3/5	3/8 x 5/8	1/4	RFGD02E-2.5-1200	10205200102
			2 -	4/7	1/2 x 7/8	1/4	RFGD02E-3.5-1205	10205200302
			3 -	4/7	1/2 x 7/8	1/4	RFGD02E-5.0-1209	10205200502
			4 -	5/7	5/8 x 7/8	1/4	RFGD02E-7.0-1217	10205200702
			5 -	5/7	5/8 x 7/8	1/4	RFGD02E-8.5-1220	10205200902
			6 -	5/7	5/8 x 7/8	1/4	RFGD02E-10.0-1222	10205215102
R404A / R507	3,5	RFGD 03E -	1 -	3/5	3/8 x 5/8	1/4	RFGD03E-2.0-1401	10205240302
			2 -	4/7	1/2 x 7/8	1/4	RFGD03E-2.5-1403	10205235102
			3 -	4/7	1/2 x 7/8	1/4	RFGD03E-4.0-1407	10205235302
			4 -	5/7	5/8 x 7/8	1/4	RFGD03E-5.0-1410	10205235502
			5 -	5/7	5/8 x 7/8	1/4	RFGD03E-6.0-1413	10205235702
			6 -	5/7	5/8 x 7/8	1/4	RFGD03E-7.5-1416	10205215002
R134a	2,1	RFGD 04E -	1 -	3/5	3/8 x 5/8	1/4	RFGD04E-1.5-1600	10205240502
			2 -	4/7	1/2 x 7/8	1/4	RFGD04E-2.5-1603	10205236002
			3 -	4/7	1/2 x 7/8	1/4	RFGD04E-3.5-1607	10205220902
			4 -	5/7	5/8 x 7/8	1/4	RFGD04E-4.5-1612	10205221002
			5 -	5/7	5/8 x 7/8	1/4	RFGD04E-5.5-1615	10205221102
			6 -	5/7	5/8 x 7/8	1/4	RFGD04E-7.0-1617	10205221202
R410A	4,5	RFGD 05E -	1 -	3/5	3/8 x 5/8	1/4	RFGD05E-3.5-1800	10205231302
			2 -	4/7	1/2 x 7/8	1/4	RFGD05E-4.5-1805	10205233502
			3 -	4/7	1/2 x 7/8	1/4	RFGD05E-6.5-1809	10205236702
			4 -	5/7	5/8 x 7/8	1/4	RFGD05E-9.0-1815	10205217402
			5 -	5/7	5/8 x 7/8	1/4	RFGD05E-11.0-1818	10205215302
			6 -	5/7	5/8 x 7/8	1/4	RFGD05E-13.0-1822	10205215402

* In the case you need MOP version, please check Sanhua Standard Catalogue.

RFGD STANDARD RANGE

B) Models with Imperial Connections
RFGD20 (orifice 7-9) -40°C to +10°C (Models without MOP)

Ref.	Valve Body	Capacity Size All Sizes	Connections IN x OUT		Pressure Equal. [inch]	Model Name	Product Number U11 Code Multi-Pack
			Imperial	[inch]			
R407C	RFGD 02E -	7 -	5/7	5/8 x 7/8	1/4	RFGD02E-12.0-542A	RFGD0005102
		7 -	5/9	5/8 x 1-1/8	1/4	RFGD02E-12.0-543A	RFGD0018802
		8 -	5/9	5/8 x 1-1/8	1/4	RFGD02E-15.0-545A	RFGD0002402
		8 -	7/9	7/8 x 1-1/8	1/4	RFGD02E-15.0-547A	RFGD0005202
		9 -	7/9	7/8 x 1-1/8	1/4	RFGD02E-18.0-549A	RFGD0005302
		9 -	7/11	7/8 x 1-3/8	1/4	RFGD02E-18.0-551A	RFGD0018902
R404A / R507	RFGD 03E -	7 -	5/7	5/8 x 7/8	1/4	RFGD03E-9.0-532A	RFGD0003902
		7 -	5/9	5/8 x 1-1/8	1/4	RFGD03E-9.0-533A	RFGD0002802
		8 -	7/9	7/8 x 1-1/8	1/4	RFGD03E-11.0-537A	RFGD0002902
		9 -	7/9	7/8 x 1-1/8	1/4	RFGD03E-13.0-539A	RFGD0004102
		9 -	7/11	7/8 x 1-3/8	1/4	RFGD03E-13.0-541A	RFGD0003002
R134a	RFGD 04E -	7 -	5/7	5/8 x 7/8	1/4	RFGD04E-8.0-501A	RFGD0005402
		7 -	5/9	5/8 x 1-1/8	1/4	RFGD04E-8.0-502A	RFGD0003302
		8 -	5/9	5/8 x 1-1/8	1/4	RFGD04E-10.0-504A	RFGD0001002
		8 -	7/9	7/8 x 1-1/8	1/4	RFGD04E-10.0-520A	RFGD0003102
		9 -	7/9	7/8 x 1-1/8	1/4	RFGD04E-12.0-522A	RFGD0003402
		9 -	7/11	7/8 x 1-3/8	1/4	RFGD04E-12.0-524A	RFGD0003202
R410A	RFGD 05E -	7 -	5/7	5/8 x 7/8	1/4	RFGD05E-15.0-510A	RFGD0002502
		7 -	5/9	5/8 x 1-1/8	1/4	RFGD05E-15.0-511A	RFGD0005502
		8 -	5/9	5/8 x 1-1/8	1/4	RFGD05E-19.0-512A	RFGD0002602
		8 -	7/9	7/8 x 1-1/8	1/4	RFGD05E-19.0-517A	RFGD0005602
		9 -	7/9	7/8 x 1-1/8	1/4	RFGD05E-23.0-555A	RFGD0002702
		9 -	7/11	7/8 x 1-3/8	1/4	RFGD05E-23.0-557A	RFGD0005702

* For other type of TXVs such as RFGB, RFGC & RFGK, please contact Sanhua representative.

SANHUA

Ready for R290 Heat Pumps

R290

Braze Plate Heat Exchangers

- Innovative and highly efficient fluid distribution system
 - Designed and optimized for Heat Pump application
 - Anti-freezing design
 - Maximum working pressure up to 50 bar
- 
- EU PED certification for flammable refrigerants, including R290
 - Patented asymmetric plate design has in average 25% lower pressure drop on secondary side compared to other available heat exchangers

Our wide range of SANHUA BPHEs include many different sizes and models. They can be used as evaporators, condensers, de-superheaters or fluid to fluid exchangers. Our design is easy to install, and gasket free technology makes them fully hermetic.

BPHE SERIES

Brazed Plate Heat Exchanger

REFRIGERANT
fluid group 1 and
group 2

PS
up to 50 bar



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

SANHUA's patented asymmetric plate design has in average 25% lower pressure drop on secondary side compared to other solutions available on the market. Sanhua is always thinking and working globally, and we have obtained EU PED certification from authorized 3rd party.

Visible performance and reliability:



-  **ASYMMETRICAL PLATE DESIGN**
-  **PATENTED, HIGHLY EFFICIENT DISTRIBUTION SYSTEM**
-  **ANTI-FREEZING DESIGN**
-  **TEMPERATURE FATIGUE RESISTANCE**

Designation of SANHUA BPHE

Below table is showing the recommended applications with different models:

H	S6B	S11A	S12B	S14B	S20	S20B	S20C	S27C	S30A	S40A	S60	S60B
650 mm												
600 mm							New!	New!	New!			
550 mm												
450 mm												
350 mm												
250 mm												
150 mm												
50 mm												
	54x119	76x154	77x192	77x213	75x317	76x318	76x318	116x314	97x327	118x332	120x527	120x527

H	S65A	S95B	S95C
650 mm			
600 mm	New!	New!	New!
550 mm			
450 mm			
350 mm			
250 mm			
150 mm			
50 mm			
	120x535	196x621	196x621



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BPHE SERIES

Brazed Plate Heat Exchanger

	S6B	S11A	S12B	S14B	S20	S20B	S20C	S27C	S30A	S40A
Capacity (kW)*	1~5	1~8	1~10	2~15	2~25	2~25	2~25	2~30	5~30	5~40
Capacity (Ton)*	0.3~1.4	0.3~2.3	0.3~2.8	0.6~4.3	0.6~7	0.6~7	0.6~7	0.6~8.5	1.4~8.5	1.4~11
Asymmetric	-	-	-	-	-	-	-	-	x	x
Reduced Depth	-	x	x	-	-	x	-	-	x	-
Distributor Option							-	-	x	x
VRF_Eco	x		x		x	x	x			
ATW/ATA HP_Eco					x	x	x	x	x	x
ATW/GHP HP_Con								x	x	x
Mini Chiller_Con/Evp					x	x	x		x	x
E-Bus_Battery Cooling		x					x	x	x	
Energy Storage Cooling								x	x	x
Transport_Eco/SuctionGas HX				x	x	x	x			
Water Chiller_Evp					x	x			x	x
Water Chiller_Eco									x	x
Ref. Rack_Eco					x	x	x			
Ref._Waterloop_Con	x	x					x			
Oil Cooler								x		

	S60	S60B	S65A	S95B	S95C
Capacity (kW)*	10~90	10~90	10~90	30~200	30~200
Capacity (Ton)*	2.8~26	2.8~26	2.8~26	8.5~56	8.5~56
Asymmetric	-	x	x	-	x
Reduced Depth	-	-	x	x	x
Distributor Option		x	x	x	x
VRF_Eco					
ATW/ATA HP_Eco	x	x	x		
ATW/GHP HP_Con	x	x	x		x
Mini Chiller_Con/Evp		x	x		x
E-Bus_Battery Cooling				x	
Energy Storage Cooling	x	x	x	x	x
Transport_Eco/SuctionGas HX			x		x
Water Chiller_Evp		x	x	x	x
Water Chiller_Eco	x	x	x	x	x
Ref. Rack_Eco					
Ref._Waterloop_Con					
Oil Cooler	x	x		x	

Note: * The cooling capacities are based on R410A, condensing temperature 40°C, 5K subcooling, water inlet/outlet temperature 12°C/7°C, 5K superheat.



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LPF SERIES

Electronic Expansion Valve



FEATURES

- Extremely high internal tightness, which is as good as with solenoid valves (<1 ml/min)
- Equal percentage flow design for better flow regulation
- Snap-on coil for easier installation
- Coil with ip67 works safely in extremely environment
- Applicable for oil-free system (not include LPF 45-62)
- Built-in strainer at inlet
- Flow direction: uni-flow

REFRIGERANT

R134a, R404A, R407A/F, R407C, R410A, R448A, R449A, R450A, R452A, R513A, R507A, R744.

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

DESIGN PRESSURE:

42 bar, MOPD: 35 bar
60 bar, MOPD 35 bar, is designed for CO₂

ENCLOSURE:

IP 67

CONSELECTION FOR LPF

Condition: Tc/Te/Sc/SH: 45°C/-35°C/2K/6K

Valve Model	Seat ϕ [mm]	kV [m ³ /h]	Maximal Cooling Capacity [kW]				
			R134a	R404A	R407F	R290	R410A
LPF03	1.0	0.009	0.85	0.73	1.23	1.16	1.39
LPF05	1.0	0.014	1.31	1.13	1.90	1.79	2.14
LPF08	1.0	0.025	2.1	1.8	3.1	2.9	3.5
LPF10	1.0	0.04	3.4	3.0	5.0	4.7	5.6
LPF14	1.4	0.08	6.5	5.6	9.4	8.8	10.6
LPF18	1.8	0.12	9.0	7.7	13.0	12.2	14.6
LPF24	2.4	0.2	12.3	10.6	17.8	16.7	20.0
LPF30	3.0	0.27	17.4	15.0	25.1	23.6	28.3
LPF32	3.2	0.30	19.0	16.4	27.5	25.9	30.9
LPF45	4.5	0.5	42.6	36.8	61.7	58.1	69.4
LPF52	5.2	0.7	57.0	49.2	82.6	77.7	92.9
LPF55	5.5	0.9	66.0	57.0	95.6	89.9	107.5
LPF62	6.2	1.1	80.3	69.3	116.3	109.4	130.8

Note: 1) The Max capacity is given for full opened position LPF... is standard series.
2) LPF...T is designed for CO₂ application.

Coil Model	Coil U11 Code	Cable length [mm]	Coil Weight (g)
		L1	
PQ-M24012-000007	10810127602	1500	140.2
PQ-M24012-000008	10810129502	3000	
PQ-M24012-000009	10810129602	6000	
PQ-M24012-000010	10810129702	9000	

CE RoHS & UL

SANHUA ELECTRONIC Kit

Simple like never before!

- Efficient Installation
- Easy Replace of the Thermostatic Expansion Valve



R404A, R134a, R450A, R513A, R448A, R449A, R452A, R407C, R507, R1234ze, R123yf, R245fa, R23, R407A, R407F, R124, R407H, R454C, R455A

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All the models are compatible with the main refrigerants on the market:
R22, R404A, R410A, R134a, R407C, R507, R1234ze, R1234yf, R290, R450A, R513A, R448A, R449A, R452A, R744(CO2), R744A(N2O), R32, R245fa, R23, R407A, R407F, R124, R717, R407H, R454C, R455A, R454B, R452B, R600A.

All the models get a RS485 port for communication.

ORDERING METHOD

Model Valve body	Part Number ¹⁾	Kv [m ³ /h]	Common products	Valve type
SEK08-01	10142001402	3/8 - 1/2	SEC612-R4 -> Controller YCQC02L18 -> Pressure Transmitter YCQC02-013022 -> Packard Cable NTC2A1 -> Probe PQ-M24012-000008 -> EEV coil	LPF08-001
SEK10-01	10142000102			LPF10-002
SEK14-01	10142000302			LPF14-002
SEK18-01	10142000502			LPF18-002
SEK24-01	10142000702			LPF24-002
SEK30-01	10142001302			LPF30-001
SEK32-01	10142001202			LPF32-001
SEK45-01	10142002902			LPF45-001
SEK52-01	10142003002	5/8 - 5/8	LPF52-001	
SEK55-01	10142003102		LPF55-001	
SEK62-01	10142003202		LPF62-001	

Compatible with the main refrigerants on the market:
R404A, R134a, R407C, R507, R1234ze, R1234yf, R450A, R513A, R448A, R449A, R452A, R245fa, R23, R407A, R407F, R124, R407H, R454C, R455A.

For others refrigerants as R290, Co2, R410a... please contact your local representative.

CONTROLLER

Items	Description
Dimension	87(W) mm x 114.3(H) mm x 31.8(D) mm
Power supply	24Vdc+10%/ -15% Class II
Power consumption	9 W with LPF at 24 VDC
Operation	-30~55oC, Humidity<95%RH
Storage	-30~55oC, Humidity<95%RH
Protection level	IP20



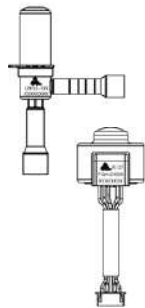
PRESSURE TRANSDUCER AND PACKARD CABLE WITH 2M LENGTH

Items	Description
Voltage supply	10-30Vdc
Output	4-20mA
Pressure range	-1-12 Bar
Test Pressure	52.5Bar
Accuracy	±0.8% F.S. (-40~+40°C)
Protection class	IP 67
Connection Type	1/4" SAE - 7/16-20UNF
Electrical connector	Packard connector



LPF AND COIL WITH 3 M CABLE LENGTH

Items	Description
Rated voltage	12 V DC (± 10%)
Excitation mode	21-2 phase excitation, uni-polar-500 stps
Excitation rate	30 - 90 pps for LPF08 -32 30 - 40 pps for LPF 45 -62
Current and resistance	260 mA, 46 ± 3.7 Ω/phase(20°C)
Medium temp.	-40°C / +70°C (duty cycles<40%)
Ambient temp.	40°C / +60°C for LPF 08-32 -30°C / +60°C for LPF 45-62
Relative humidity	0 to 95% RH
Design Pressure	42 bar for LPF08 -32 49 bar for LPF 45-62
MOPD	35 bar



TEMPERATURE SENSOR

Items	Description
Type	NTC 5KΩat 25°C
Wire	2x0.5mm ² -2m length
Protection class	IP 67
Accuracy	±0.3°C (below25°C)
Temperature Range	-50 -50°C





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VPF SERIES

Electronic Expansion Valve



REFRIGERANT

R134a, R513A, R404A, R407A, R452C, R407F, R450A, R452A, R452B, R410A, R507A, R1234yf, R1234ze, R290, R32, R454C, R455A, ...

COOLING CAPACITY:

54 to 1495 kW (R134a nominal capacity)

UP TO 3800 STEPS (FULL STROKE);

VValve starts opening with: VPF12.5, VPF25: 110 steps VPH50... VPF400: 165Steps

MEDIUM TEMPERATURE

TS MIN./MAX.: -40°C / +90°C

AMBIENT TEMPERATURE

MIN./MAX.: -40°C / +60°C

RELATIVE HUMIDITY :

0 to 100% RH

INSTALLATION POSITION:

Major flow direction from connection A to B. Installation in horizontal and vertical pipes possible. Installation position in horizontal lines with stepper motor preferably upwards.

CERTIFICATIONS:

EAC, PED Declaration for fluids group 2 full range and fluid group 1 for VPF12.5 to 100.

FEATURES

- Energy saving thanks to very precise capacity control: up to 3800 steps
- Internal tightness like a solenoid valve
- Optimized flow path design for noise reduction
- Applicable for reversible systems like heat pumps:

bidirectional flow

- Corrosion resistant design, long lifetime, high reliability
- Compact design
- Models with integrated sight glass are available

ELECTRICAL PARAMETER

Rated voltage	12VDC, rectangular wave
Actuating mode	2-phase 4-step permanent magnet stepping motor
Excitation mode	2 phase excitation, bi-pole actuation
Coil resistance	52 ± 5,2Ω/coil (20°C)
Insulation coil class	E
Protection class	IP 67

	Voltage drive	Current drive
Excitation rate	150 pps Max	300 pps Max
Motion time from completely open to completely closed	VPF12.5...VPF50: 17,3 s VPF100: 23,3 s VPF150...VPF400: 25,3 s	VPF12.5...VPF50: 8,7 s VPF100: 11,7 s VPF150...VPF400: 12,7 s
Nominal motor current*	124 mA RMS per phase in control operation	100 mA RMS per phase in control operation
Peak motor current*	238 mA RMS per phase in control operation	140 mA RMS per phase in control operation

*Specified motor currents are based on max. excitation rates

TECHNICAL PARAMETER

Model	Part Number ¹⁾	Valve Shape	Sight Glass	Connections and ODF		Seat ²⁾ Ø	Kv ²⁾	MWP PS	MOPD Direct A->B	MOPD Rev. B->A
				Inlet A x Outlet B						
				[inch]	[mm]	[mm]	m ³ /h	[MPa]	[MPa]	[MPa]
VPF12.5HS2	10130349502	straight	-	5/8 x 5/8	16 x 16	7,5	0,8			
VPF12.5HS3	10130350202			7/8 x 7/8	22 x 22					
VPF12.5HS5	10130342102			5/8 x 5/8	16 x 16					
VPF12.5HS9	10130349802	L-shape	-	7/8 x 7/8	22 x 22	7,5	1,4			
VPF25HS2	10130349202			5/8 x 5/8	16 x 16					
VPF25HS3	10130356202			7/8 x 7/8	22 x 22					
VPF25HS8	10130343202	L-shape	-	5/8 x 5/8	16 x 16	7,5	1,4			
VPF25HS9	10130356102			7/8 x 7/8	22 x 22					
VPF50HS1	10130337702			7/8 x 7/8	22 x 22					
VPF50HS2	10130347002	straight	-	7/8 x 1 1/8	-	11,4	2,3	5,0	3,9	3,9
VPF50HS3	10130356502			1 1/8 x 1 1/8	-					
VPF50HS4	10130342302			1 1/8 x 1 3/8	-					
VPF50HS6	10130347102	straight	with sight glass	-	22 x 28	14,4	4,0			
VPF50HS7	10130347202			-	28 x 28					
VPF50HS8	10130342402			-	28 x 35					
VPF50H01	10130341102	straight	-	7/8 x 7/8	22 x 22	11,4	4,0	5,0	3,9	3,9
VPF50H02	10130346702			7/8 x 1 1/8	-					
VPF50H03	10130344802			1 1/8 x 1 1/8	-					
VPF50H04	10130342802	straight	with sight glass	1 1/8 x 1 3/8	-	14,4	4,0			
VPF50H06	10130346802			-	22 x 28					
VPF50H07	10130346902			-	28 x 28					
VPF50H08	10130342502	-	28 x 35							
VPF100HS1	10130347502	straight	-	1 1/8 x 1 1/8	-	14,4	4,0			
VPF100HS2	10130347602			1 1/8 x 1 3/8	-					
VPF100HS3	10130342602			1 3/8 x 1 3/8	35 x 35					
VPF100HS4	10130347702	straight	with sight glass	-	28 x 28	14,4	4,0			
VPF100HS5	10130347802			-	28 x 35					
VPF100H01	10130356802			1 1/8 x 1 1/8	-					
VPF100H02	10130347302	straight	with sight glass	1 1/8 x 1 3/8	-	14,4	4,0			
VPF100H03	10130356602			1 3/8 x 1 3/8	35 x 35					
VPF100H05	10130347402			-	28 x 35					
VPF100H06	10130343102	-	28 x 28							
VPF150H01	10130357002	L-shape	with sight glass	1 1/8 x 1 3/8	-	14,8	7,7			
VPF150H02	10130356702			1 5/8 x 1 5/8	-					
VPF250H01	10130348002			1 1/8 x 1 1/8	-					
VPF250H02	10130342902	straight	with sight glass	1 3/8 x 1 3/8	35 x 35	25	11,9	4,5	3,5	3,5
VPF250H03	10130356402			1 5/8 x 1 5/8	-					
VPF250H04	10130348102			-	28 x 28					
VPF250H05	10130341202	straight	with sight glass	1 5/8 x 1 5/8	-	33	17,0			
VPF400H01	10130344902			-	42 x 42					
VPF400H02	10130349002			-	54 x 54					
VPF400H03	10130343302	-	2 1/8 x 2 1/8	54 x 54						

Note: 1) Extent of delivery: valve body only, the connection cable is separated.
2) Kv values valid for the flow direction inlet A to outlet B.

COOLING CAPACITIES

Model	Steps	Max Cooling Capacity ¹⁾ [kW]						
		R134a	R407C	R404A / R507A	R410A	R32	R290	R1234ze
VPF12.5	2600	54	71	50	82	126	77,4	43
VPF25	2600	116	152	108	176	262	160,8	92
VPF50	2600	221	290	206	336	527	323,1	175
VPF100	3500	319	418	297	484	748	458,9	253
VPF150	3800	574	752	534	871	N.C.	N.C.	455
VPF250	3800	892	1168	830	1353	N.C.	N.C.	706
VPF400	3800	1495	1958	1392	2269	N.C.	N.C.	1183
VPF400	2700	1301	1703	1211	N.C.	N.C.	N.C.	1029

Note: 1) Nominal conditions: Condensing temperature=38°C / Evaporating temperature=+4,4°C / liquid temperature =37°C.
2) For refrigerants with glide, performances are given in dew point N.C.=Not Certified.

For others running points or others refrigerants, please contact your local support or download our selection software – Quick Finder with the link:
www.sanhuaeurope.com/en/quick-finder-software-download

VSD2001 SERIES
Electronic Expansion Valve Driver



ELECTRICAL PARAMETERS

POWER SUPPLY

24 Vac (20-28), 50/60 Hz
 24 Vdc (20-28), 30 W, class 2

INPUTS

4~20 mA or 0~10 VDC analog signal

OUTPUT

Unipolar / Bipolar EEV output

SELF-HOLDING MECHANISM

Maintain excitation in stop position min. 0.1 s

DRIVE SPEED

200 pps (30-200 pps can be selected)



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FEATURES

- Driver for two in dependent EEV
- Unipolar/ bipolar EEV can be selected independently
- Suitable for sanhua DPF / LPF / VPF series

- 0~10 VDC or 4~20 mA analog signal input, control EEV opening
- Small size, slide design, easy to install

ORDERING

Model	Part Number	Detail
VSD2001	10685000602	Standard model
MD02-R5	10680002602	Manual operator



Quick Finder

SELECT THE RIGHT PRODUCT



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MDF SERIES Solenoid Valve



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

REFRIGERANT
R134a, R404A, R407A/F,
R407C, R410A, R448A, R449A,
R450A, R452A, R513A, R507A⁹
R290

LARGE TEMPERATURE SERVICE RANGE
MDF 2H...22H and MDF 2L...15L:
-30°C/105°C - MDF 25H...40H:
-40°C/140°C

PS
45 bar

COIL PROTECTION
IP65 - DIN Plug



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FEATURES

- Coils: low energy consumption, reliable
- Great valve opening performance, high MOPD
- Coils are double sealed, water tight and safe
- Quick installation coil MQ-A11 for fast and easy installation available

CE RoHS & UL

Model Valve Body	Coil voltage	Kv	SAE Flare Connection [inch]	Part Number ³	Solder Connection ODF	Part Number ⁹
		[m ³ /h]			[inch]	
MDF-A03-2	AC/DC	0.16	1/4	10125000102	1/4	10125011202
MDF-A03-3	AC/DC	0.23	1/4	10125009202	1/4	10125011302
MDF-A03-3	AC/DC	0.23	3/8	10125004402	3/8	10125003602
MDF-A03-6	AC	0.8	3/8	10125009302	3/8	10125011402
MDF-D03-6	DC	0.8	3/8	10125018002	3/8	10125017402
MDF-A03-6	AC	0.8	1/2	10125004502	1/2	10125004202
MDF-D03-6	DC	0.8	1/2	10125017802	1/2	10125017502
MDF-A03-10	AC	1.9	1/2	10125005402	1/2	10125011502
MDF-D03-10	DC	1.9	1/2	10125018902	1/2	10125017202
MDF-A03-10	AC	1.9	5/8	10125009402	5/8	10125006302
MDF-D03-10	DC	1.9	5/8	10125018702	5/8	10125018402
MDF-A03-15	AC	2.3	5/8	10125009502	5/8	10125003702
MDF-D03-15	DC	2.3	5/8	10125019302	5/8	10125017102
MDF-A03-15	AC	2.3	7/8	10125004802	7/8	10125005002
MDF-D03-15	DC	2.3	7/8	10125019502	7/8	10125019002
MDF-A03-20	AC/DC	5.0			7/8	10125011702
MDF-A03-22	AC/DC	5.9			7/8	10125011802
MDF-A03-20	AC/DC	5.0			1-1/8	10125005602
MDF-A03-22	AC/DC	5.9			1-1/8	10125006202
MDF-B03-25	AC/DC	10.0			1-1/8	10125006902
MDF-A03-22	AC/DC	5.9			1-3/8	10125005102
MDF-B03-25	AC/DC	10.0			1-3/8	10125006802
MDF-B03-32	AC/DC	15			1-3/8	10125009102
MDF-B03-32	AC/DC	15			1-5/8	10125007502
MDF-B03-40	AC/DC	25			1-5/8	10125004302
MDF-B03-40	AC/DC	25			2-1/8	10125007702

Note: 1) Flammable refrigerants like R32, R290, R1234ze(E), R1234yf on request.

TECHNICAL PARAMETERS OF COIL

Model Coil ¹⁾	Part Number ²⁾	Plug type	Supply	Rated Voltage [V]	Power [W]	Voltage Tolerance	Insulation Class	Protection Class (w/plug)	UL Approval	
MQ-A03024-000001	10820009902	DIN Plug	AC	24	10.5 (50 Hz)	-15% +10%	F	IP67	NO	
MQ-A03024-000018	10820013702				8.5 (60 Hz)			IP65	YES	
MQ-A0311A-000001	10820010102			110 to 120	12 (50 Hz)			IP67	NO	
MQ-A0311A-000005	10820016502				10 (60 Hz)			IP65	YES	
MQ-A0322G-000001 ⁴⁾	10820010002			220 to 240	12 (50 Hz)			IP67	NO	
MQ-A0322G-000024	10820015002				10 (60 Hz)			IP65	YES	
MQ-A11024-000001	10820009402	Quick Install Plug ³⁾	AC	24	9.5 (50 Hz)		F	IP67	OR ⁵⁾	
MQ-A1111A-000001	10820009202			110 to 120	11.5 (50 Hz)				10.0 (60 Hz)	OR
MQ-A1122G-000001	10820009002			220 to 240	11 (50 Hz)				9.5 (60 Hz)	OR
MQ-D03012-000002	10820001302	DIN Plug	DC	12	15	±10%		IP67	NO	
MQ-D03024-000002	10820001002			24					NO	
MQ-D03110-000003	OR			110					NO	

Note: 1) Match with valve body: Please respect information in table "Technical Parameters of valve body". See page 2 of this document.

2) Extent of delivery: coil body, fastening screw for the coil body, plug for electrical connection incl. Gaskets and fastening screws.

3) Outer cable diameter: 7.1 to 9.7 mm and cable core 0.75 to 2.5 mm².

4) Coil MQ-A0322G-000001 is third party certified for usage with flammable refrigerants (A2L, A3).

Usage of the other coils (only without UL approval) with flammable refrigerants - please contact Sanhua.

5) OR: On Request.



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Pressure Equipment
Directive 2014/68/EU

MDF SERIES
Solenoid Valve

TECHNICAL PARAMETERS OF VALVE BODY

Valve Body		Usable Coils	Normal position	Actuation	Kv [m ³ /h]	MDP [MPa]	Max. OPD [MPa]		Min. OPD ⁷⁾ [MPa]
Solder	Flare						AC ⁴⁾ coil	DC ⁵⁾ coil	
MDF-A03-2H	MDF-A03-2L	AC+DC	NC ¹⁾	Direct	0,16	4,5	3,1	3,1	0,00
MDF-A03-3H	MDF-A03-3L				0,23			NR	
MDF-A03-6H	MDF-A03-6L	AC		0,8	NP		2,8		
MDF-D03-6H	MDF-D03-6L	DC		1,9	3,1		NR	0,005	
MDF-A03-10H	MDF-A03-10L	AC			NP		2,8		
MDF-D03-10H	MDF-D03-10L	DC			3,1		NR		
MDF-A03-15H	MDF-A03-15L	AC			2,3		NP		2,8
MDF-D03-15H	MDF-D03-15L	DC		Pilot (P) ³⁾	5,0		3,1	3,1	0,02
MDF-A03-20H		AC+DC			5,9				
MDF-B03-25H	-				10,0				
MDF-B03-32H		15,0							
MDF-B03-40H			25,0						

- Note:** 1) NC means: Normally closed valve.
 2) Membrane operated.
 3) Piston operated.
 4) NP means: not permitted to use, select MDF-A03 model.
 5) NR means: not recommended to use. Only possible with R134a and min. evaporationtemp. / max. condensing temp. -15°C/+58°C, select MDF-D03 model.
 6) Pressure values valid for 24 V DC coil. Values for 12 V DC coils on request.
 7) Max. OPD at 85% Ue.(AC, Air); Max. OPD at 90% Ue.(DC, Air).

CO₂ product



innovating
TOGETHER



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

YCQB & YCQC SERIES Pressure Sensor

REFRIGERANT
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°

FEATURES

- Overall features: applied high performance digital circuit which has good linear, small temperature excursion and high level of accuracy over wide operating range
- Small size and simple installation

- models available with lead wire direct connector or with packard and molex socket connections
- Stability: applied superior pressure core, good stability under strict process control
- Diversification: different pressure ranges and different level of accuracy

YCQB with 0.5 to 4.5 V output signal

Output signal = 0.5 to 4.5 V							
Model Name	Part Number	Connection type	Pressure range	Max Working pressure	Electrical connection	Accuracy	Medium Temp.
			[bar]	[bar]	Type	%	°C
YCQB02H50	10185004502	Solder ¼"	0-13.8	52,5	Packard	±2% FS	-30 / 120
YCQB04H50	10185004602		0-34.5	75	Packard	±2% FS	-30 / 120
YCQB03H06	10185046502		0-30	75	2m wires +XHP	±0,8% FS	-40 / 120
YCQB05H11	10185046102		0-50	75	2m wires +XHP	±2% FS	-40 / 150
YCQB02L01	10185004902	Flare 7/16- 20UNF-2B	0-20	52,5	2m wires +XHP	±2% FS	-30 / 120
YCQB02L01-01	10185001402		0-20	52,5	2m wires +XHP	±0,8% FS	-40 / 120
YCQB03L18	10185046402		0-30	75	2m wires +XHP	±0,8% FS	-40 / 120
YCQB05L01	10185007002		0-46	75	2m wires +XHP	±2% FS	-30 / 120
YCQB05L63	10185046002		0-50	75	2m wires +XHP	±2% FS	-40 / 150
YCQB01L50	10185015702		-1 -9.3	52,5	Packard	±2% FS	-30 / 130
YCQB02L50	10185004002		0-13.8	52,5	Packard	±1% FS	-30 / 120
YCQB02L51	10185014102		0-17.2	52,5	Packard	±1% FS	-30 / 120
YCQB03L157	10185046202		0-30	75	Packard	±0,8% FS	-40 / 120
YCQB04L50	10185004202		0-34.5	52,5	Packard	±1% FS	-30 / 120
YCQB05L50	10185004302		0-46	75	Packard	±1% FS	-30 / 120
YCQB05L53	10185013402		0-45	75	Packard	±2% FS	-30 / 130
YCQB05L161	10185045902		0-50	75	Packard	±2% FS	-40 / 150
YCQB02L100	10185009102		0-20	52,5	Molex	±2% FS	-30 / 120
YCQB05L100	10185009202		0-46	75	Molex	±1% FS	-30 / 120

*Flare = 7/16-20UNF-2B connector / Solder = ¼" connector.

YCQB for water use. Suitable with pure water and water + glycol till 50%.

Output signal = 0.5 to 4.5 V							
Model Name	Part Number	Connection type	Pressure range	Max Working pressure	Electrical connection	Accuracy	Medium Temp.
			[bar]	[bar]	Type	%	°C
YCQB01L503	10185042702	Flare 7/16-20UNF-2B	0-10	52.5	XHP	2	-30/+100

GENERAL CHARACTERISTICS

YCQC with 4-20mA signal output

Output signal = 4-20 mA							
Model Name	Part Number	Connection type	Pressure range	Max Working pressure	Electrical connection	Accuracy	Medium Temp.
			[bar]	[bar]	Type	%	°C
YCQC03L04	10185011002	Flare 7/16-20UNF-2B	0-30	75	Hirschmann	±0,8% FS	40 / 80
YCQC01L13	10185015202		-0.5-7	52.5	Packard	±0,8% FS	-40 / 80
YCQC02L18	10185017102		-1-12	52.5	Packard	±0,8% FS	-40 / 80
YCQC03L05	10185009302	Flare 7/16-20UNF-2A	0-30	75	Packard	±0,8% FS	-40 / 80
YCQC03L06	10185009402		0-30	75	Packard	±0,8% FS	-40 / 80
YCQC03L11	10185014402	Flare 7/16-20UNF-2B	0-30	75	Packard	±0,8% FS	-40 / 80
YCQC05L09	10185015302		0-44.8	75	Packard	±0,8% FS	-40 / 80
YCQC05L25	10185047002		0-50	75	Packard	±0,8% FS	-40 / 150

YCQC for water use. Suitable with pure water and water + glycol till 50%.

Output signal = 4-20 mA							
Model Name	Part Number	Connection type	Pressure range	Max Working pressure	Electrical connection	Accuracy	Medium Temp.
			[bar]	[bar]	Type	%	°C
YCQC01L501	10185036002	Flare 7/16-20UNF-2B	-0.8 -7	52.5	Packard	±0,8% FS	-40/80



For Systems Requiring a Pressure Control Function

World-class engineering and manufacturing technology combined with premium materials for superior performance.



Single Pole, Double Throw (SPDT) Switch



Durable Bronze Bellows and 1/4" flare connections



Auto or Manual Reset Models



Installation Plate Supplied with all Models

MULTIPLE PRESSURE REGULATING RANGES AVAILABLE



PS01/50/15 series pressure controls are used in refrigeration and air conditioning systems to protect the systems from extremely low suction pressure or extremely high discharge pressure.

CONVENIENT CAP TUBE/FLARE NUT CONNECTION AVAILABLE



PSV01/50/60/15/16 SERIES

Pressure controls

REFRIGERANT
R134a, R404A/R507, R407C, R407A/F, R448A/449A, R452A, R513A, R450A, R1234ze(E).

MEDIUM TEMPERATURE TS MIN./MAX.
40°C / +120°C

MAX. WORKING PRESSURE (PS):
HP: 3.5 MPa; LP: 1.65 MPa

ENCLOSURE:
IP44

CERTIFICATION:
CE, PED IV and UL Listed

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

FEATURES

- High level of accuracy and stable repeatability
- Long life time with both excellent electric and mechanical reliability
- SPDT switch to ensure good contact and disconnect conversion with fast reactions

- Various pressure ranges are available
- Standard plate for installation
- Bellow elements are made of tin bronze and pressure connections are made of brass

CE RoHS & UL

SELECTION AND ORDERING

PSV01, PSV50, PSV60, PSV15, PSV60 Flare Connection

Type	Low Pressure (LP)		High Pressure (HP)		Reset		PED 2014 68/EU EN 12263 Certified ⁹	Ordering Code	
	Range	Differential Pressure ΔP	Range	Differential Pressure ΔP	Low Pressure	High Pressure		Flare Connection 7/16-20UNF (1/4in. 6mm)	
	[bar]	[bar]	[bar]	[bar]				Model	U11 Code
PSV01	-0.5-7	0.7-5	-	-	Auto	-	✓	PSV01AL-S01	10660012102
PSV01	-0.5-7	0.7	-	-	Man	-	✓	PSV01ML-S01	10660013102
PSV50	-	-	6-32	4-15	-	Auto	✓	PSV50AL-S01	10660014202
PSV50	-	-	6-32	4	-	Man	✓	PSV50ML-S01	10660018402
PSV60	-	-	8-42	5-15	-	Auto	✓	PSV60AL-S01	10660014302
PSV60	-	-	8-42	5	-	Man	✓	PSV60ML-S01	10660019202
PSV15	-0.5-7	0.7-5	6-32	5	Auto	Auto	✓	PSV15AAL-S01	10660014402
PSV15	-0.5-7	0.7-5	6-32	5	Auto	Man	✓	PSV15AML-S01	10660016702
PSV16	-0.5-7	0.7-5	8-42	6	Auto	Auto	✓	PSV16AAL-S01	10660014102
PSV16	-0.5-7	0.7-5	8-42	6	Auto	Man	✓	PSV16AML-S01	10660018702

Tips:

Pressure controls which are certified by TÜV Rheinland acc. to PED 2014 68/EU, EN12263 are designed with double bellows at high pressure, and they provide "fail-safe" function. The double bellows system prevents loss of charge in the event of the inner bellow rupture. A rupture in the inner bellow will cause the control cut-out pressure to fall about 3 times less the set value and the compressor will stop. A rupture in the outer bellows will cause the control cut-out pressure to fall to about 3 bar under the set value and providing the so-called "fail-safe" function.



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SYJ SERIES Sight Glass



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

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

PS
46 bar

FEATURES

- High precision color indicator
- Indicator pasted closely to the glass to prevent surface contamination
- Solid and corrosion resistant brass material
- Good readability due to high clear sight glass of wide angle

- Sealing of low creep PTFE to ensure leakage free performance
- New annular humidity color indicator. full port passage with low pressure drop

CE RoHS PED & UL, VDE

FEMALE / FEMALE

Model	Part number	Order number	Connection Type	Connections ODF	
				Ød	
				[inch]	[mm]
SYJ6	SYJ06H52	SYJX0000402	ODF x ODF Solder	-	6
SYJ6	SYJ06H51	10285016702	ODF x ODF Solder	1/4	-
SYJ10	SYJ10H51	10285016802	ODF x ODF Solder	3/8	-
SYJ10	SYJ10H52	SYJX0000202	ODF x ODF Solder	-	10
SYJ12	SYJ12H51	10285017202	ODF x ODF Solder	1/2	-
SYJ12	SYJ12H52	SYJX0000302	ODF x ODF Solder	-	12
SYJ16	SYJ16H51	10285016902	ODF x ODF Solder	5/8	16
SYJ19	SYJ19H51	10285017002	ODF x ODF Solder	3/4	-
SYJ22	SYJ22H11	10285007602	ODF x ODF Solder	7/8	22
SYJ28	SYJ28H51	SYJX0000502	ODF x ODF Solder	1 1/8	-

MALE / MALE

Model	Part number	Order number	Connection Type	SAE Flare	
				Ød	
				[inch]	
SYJ6	SYJ06L51	SYJX0001602	Flare M x M	1/4	
SYJ10	SYJ10L51	SYJX0000802	Flare M x M	3/8	
SYJ12	SYJ12L51	SYJX0001002	Flare M x M	1/2	
SYJ16	SYJ16L51	SYJX0001202	Flare M x M	5/8	
SYJ19	SYJ19L51	SYJX0001502	Flare M x M	3/4	

MALE / FEMALE

Model	Part number	Order number	Connection Type	SAE Flare	Weight [g]	PED Category
				Ød		
SYJ6	SYJ06L61	SYJX0000702	Flare F x M	1/4	95	4,3
SYJ10	SYJ10L61	SYJX0000902	Flare F x M	3/8	175	4,3
SYJ12	SYJ12L61	SYJX0001102	Flare F x M	1/2	195	4,3
SYJ16	SYJ16L61	SYJX0001302	Flare F x M	5/8	245	4,3
SYJ19	SYJ19L61	SYJX0001402	Flare F x M	3/4	260	4,3

SBV SERIES Ball Valve



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

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

PS
45 bar



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Pressure Equipment Directive 2014/68/EU

CE RoHS PED & UL

FEATURES

- Straightway type, full port, low pressure drop, cost-effective
- Valve body and valve seat with welded structure, with high product reliability
- Rotate 1/4 circles from full-open to full-close, easy to operate
- Bidirectional flow
- Rotation stop on request for full-open and full-close of the valve for sizes \geq sbv-11
- Special sealing materials to prevent internal leakage

STANDARD SBV MODELS WITH FULL PORT PASSAGE

Without Access Fitting		Connections \varnothing d ODF		Kv	Wrench Size Cap	PED Category		With Access Fitting	
Model	Part Number*	[inch]	(mm)	[m ³ /h]	(mm)	Fluids Group 1**	Fluids Group 2	Model	Part Number*
SBV02-019	10150091902	1/4	-	1,9	19	Art.4.3	Art.4.3	SBV02-319	10150094602
SBV03-019	10150091802	3/8	-	5,5	19	Art.4.3	Art.4.3	SBV03-319	10150094802
SBV04-019	10150090502	1/2	-	7,3	19	Art.4.3	Art.4.3	SBV04-319	10150095002
SBV(M)-A5YHSY-1-SA	10150053302	5/8	16	13,8	14	Art.4.3	Art.4.3	SBV(M)-JA5YHSY-1-SA	10150053402
SBV(M)-A6YHSY-1-SA	10150054302	3/4	-	20,6	17	Art.4.3	Art.4.3	SBV(M)-JA6YHSY-1-SA	10150054202
SBV(M)-A7YHSY-1-SA	10150053502	7/8	22	29	17	Art.4.3	Art.4.3	SBV(M)-JA7YHSY-1-SA	10150053602
SBV(M)-A9YHSY-1-SA	10150054702	1 1/8	-	54,3	17	Cat.II	Art.4.3	SBV(M)-JA9YHSY-1-SA	10150054802
SBV(M)-A11YHSY-1-SA	10150055002	1 3/8	35	85,5	17	Cat.II	Art.4.3	SBV(M)-JA11YHSY-1-SA	10150054902
SBV(M)-A13YHSY-2-SA	10150055502	1 5/8	-	133,7	17	Cat.II	Cat.I	SBV(M)-JA13YHSY-2-SA	10150055402
SBV(M)-A17YHSY-1-SA	10150055702	2 1/8	54	225	19	Cat.II	Cat.I	SBV(M)-JA17YHSY-1-SA	10150055802
SBV(M)-A21YHSY-2-SA	10150056302	2 5/8	-	380	19	Cat.II	Cat.I	SBV(M)-JA21YHSY-2-SA	10150056402
SBV(M)-A25YHSY-2-SA	10150056602	3 1/8	80	530	24	Cat.II	Cat.I	SBV(M)-JA25YHSY-2-SA	10150056602
SBV(M)-A29YHSY-1-SA	10150057002	3 5/8	92	700	24	Cat.II	Cat.I	SBV(M)-JA29YHSY-1-SA	10150056902
SBV(M)-A33YHSY-2-SA	10150056102	4 1/8	105	950	29	Cat.II	Cat.I	SBV(M)-JA33YHSY-2-SA	10150056202
SBV(M)-A34YHSY-1-SA	10150057102	4 1/4	108	950	29	Cat.II	Cat.I	SBV(M)-JA34YHSY-1-SA	10150057202

Note: 1) SBV model with different connection sizes available on request.
2) **SBV models with DN>25mm are not certified according to PED category II and cannot be used in combination with flammable refrigerants (Fluid Group 1).

GBV SERIES Ball Valve



REFRIGERANT:
all common HFC, HFO and HC refrigerants such as: R134a, R404A, R410A, R507A, R448A, R449A, R450A, R452A, R513A, R32, R1234yf, R1234ze(E), R1233zd(E), R454A/B/C, R455A, R290

LARGE TEMPERATURE SERVICE RANGE:
-40°C / +120°C
(< +150°C for short term use)

PS
49 bar



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CE RoHS PED & UL

FEATURES

- Straightway type, full port, low pressure drop
- All stainless steel body with copper connectors
- Produced with advanced welding process to provide very low internal leakage rates, and smooth opening/closing rotation.
- Light weight body with very good vibration resistance, mostly no need of fixation
- Bi-directional flow
- Easy maintenance: the valve cap is anti-falling design and anti-rotating valve stem
- Green environmental protection: lead-free design, so that the product life cycle carbon emissions is about 50% of a brass ball valve

STANDARD GBV MODELS WITH FULL PORT PASSAGE

Without Access Fitting		Connections \varnothing d ODF		Kv	DN	PED Category (Fluid Group 1)	PED Category (Fluid Group 2)	With Access Fitting		
Weight [g]	[inch]	[mm]	[m ³ /h]	Model				Part Number*	Weight [g]	
110	-	15	13,8	14,6	Art.4.3	Art.4.3	GBV05H004	10150131802	125	
110	5/8	16	13,8	14,6	Art.4.3	Art.4.3	GBV05H003	10150127202	125	
244	-	18	20,6	20,6	Art.4.3	Art.4.3	GBV06H004	GBVX0000102	260	
244	3/4	-	20,6	20,6	Art.4.3	Art.4.3	GBV06H003	10150122902	260	
255	7/8	22	29	20,6	Art.4.3	Art.4.3	GBV07H003	10150121502	270	
366	-	28	54,3	26,6	Cat.II	Art.4.3	GBV09H004	GBVX0000202	380	
366	1-1/8	-	54,3	26,6	Cat.II	Art.4.3	GBV09H003	10150127302	380	
667	1-3/8	35	85,5	33,4	Cat.II	Cat.I	GBV11H003	10150128702	682	
1151	1-5/8	-	133,7	39,0	Cat.II	Cat.I	GBV13H003	10150128802	1163	
1151	-	42	133,7	39,0	Cat.II	Cat.I	GBV13H004	GBVX0000302	1163	



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SHF SERIES 4 Way Reversing Valve

REFRIGERANT
R134a, R404A,
R407C, R410A, R507A

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

OPD MAX
40 bar

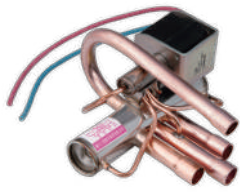
PS
45 bar

FEATURES

- Wide application range
- Suitable for cooling capacities from 3.6 to 420 kW

(r410a, condition 2)

- Several designs available



COIL

Coil Model [®]	Winding Code	Part Number	Electrical Function / Connection Type	Cable Length [mm]	Power Supply []	Rated Voltage [V]	Power Consumption			Protection Class	Insulat. Class	Max. Op. Temp. [°C]
							AC		DC			
							50 Hz [W]	60 Hz [W]				
SQ-A25 22G-00 0001	SHF-4-10L3	10805029102	Lead Wires	500	AC	220-240	4,5	3,5	-	IP54	B [®]	130
SQ-A25 11A-00 0001	SHF-4-10L4	10805150302	Lead Wires	500	AC	110-120	4,5	3,5	-			
SQ-A25 024-00 0001	SHF-4-10L5	10805227602	Lead Wires	500	AC	24	4,5	3,5	-			

Note: 1) Every coil is applicable to all above specified valve models.

2) Max ambient temperature up to + 50°C.

3) Wire Harness for coil with Faston connector available as accessory.

4) Spade & Bi-stable connection available on request.

5) For other models, please contact Sanhua.

NOMINAL OPERATING CONDITIONS

Nominal operating conditions	Condition 1
Condensing Temperature t_c	38°C
Evaporating Temperature t_e	5°C
Superheat Δt_{sh}	5K
Subcooling Δt_{sc}	0K

Notes for Capacity Selection Tables:

1) Pressure drop is valid for flow from ØC to ØS or from ØE to ØS.

2) R407C data based on dew point conditions.

CAPACITY SELECTION TABLE

Valve Size	Nominal Cooling Capacity (condition 1)							
	R407C ²⁾		R410A		R134a		R404A/R507A	
	$\Delta P: 0,1$ bar [kW]	$\Delta P: 0,2$ bar [kW]	$\Delta P: 0,1$ bar [kW]	$\Delta P: 0,2$ bar [kW]	$\Delta P: 0,1$ bar [kW]	$\Delta P: 0,2$ bar [kW]	$\Delta P: 0,1$ bar [kW]	$\Delta P: 0,2$ bar [kW]
SHF(L)-3H	3,3	4,7	4,0	5,7	2,6	3,7	2,9	4,0
SHF(L)-4H	3,6	5,0	4,3	6,1	2,8	4,0	3,1	4,3
SHF(L)-7H	6,5	9,1	7,8	11,0	5,1	7,2	5,5	7,8
SHF(L)-11H	10,0	14,2	12,1	17,1	7,9	11,1	8,6	12,1
SHF-14A-46	14,7	20,8	17,7	25,1	11,5	16,3	12,6	17,8
SHF-20D-46	21,2	29,9	25,5	36,1	16,6	23,5	18,1	25,6
SHF-20D-xx	22,1	31,2	26,6	37,7	17,3	24,5	18,9	26,7
SHF-35B	32,7	46,3	39,5	55,9	25,7	36,3	28,1	39,7
SHF-50A-79	40,8	57,7	49,2	69,6	32,0	45,2	34,9	49,4
SHF(L)-70	63,5	89,8	76,6	108,4	49,8	70,4	54,4	76,9
SHF(L)-100	90,2	127,6	108,9	154,0	70,8	100,1	77,3	109,3
SHF(L)-140	130,1	184,0	157,1	222,1	102,0	144,3	111,5	157,6
SHF(L)-175	157,0	222,1	189,6	268,1	123,2	174,2	134,6	190,3
SHF(L)-210	188,0	265,9	227,0	321,0	147,5	208,6	161,1	227,8
SHF(L)-350	308,3	436,0	372,2	526,4	241,8	342,0	264,2	373,6
SHF(L)-420	394,3	557,6	476,0	673,2	309,3	437,4	337,8	477,8

For specific connection sizes & ordering, please contact Sanhua.

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

4 WAY REVERSING VALVE

1 KW

420 KW



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

Improves efficiency by 5%

SHF series 1 kW to 420 kW

Widest range in the market with Single Body Design



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

YCV SERIES

**Check Valve
Piston Type**



FEATURES

- This valve can ensure the only correct flow direction
- Equipped with damping spring to freely install the valve at positions with pressure pulse
- Available in 2 layouts depending by size: straightway valve and I-shape valve, easy to connect
- Special version of check valve equipped with reinforced spring, applicable to compressor discharge pipes in single or multi compressor systems (YCVSH & YCVSH-R series)
- Low pressure drop during operation
- Some models are certified according ped CAT.II by TUV Rheinland

REFRIGERANT

R134a, R404A, R407A/C/F, R410A, R507A, R448A, R449A, R450A, R452A, R513A, R32, R1234yf, R1234ze, R454A/B/C, R455A R290, R1270, R600a

MEDIUM TEMPERATURE

TS MIN./MAX.:
-40°C to +120°C

PS

4,9 MPa
(49bar)

Section 1: Check Valves suitable for A1 refrigerants (Non-flammable refrigerants)

CE RoHS PED & UL, VDE

1A. MODELS WITH NORMAL PISTON SPRING

Model	Part Number	Type	Connection		Kv (m³/h)	Min. OPD [kPa]	DN [mm]	PS [bar]	max TS [°C]	PED Cat. [F.G.1]	PED Cat. [F.G.2]
			Ø ODF								
			[inch]	[mm]							
YCVS2H01	10162001602	S	1/4	-	0,56	5	5,0	46	140	Art. 4.3	Art. 4.3
YCVS3H01	10162000402	S	3/8	-	1,60	5	7,9	46	140	Art. 4.3	Art. 4.3
YCVS4H01	10161001302	S	1/2	-	2,64	5	11,1	46	140	Art. 4.3	Art. 4.3
YCVS5H03	10161001602	S	5/8	16	4,00	5	13,0	46	140	Art. 4.3	Art. 4.3
YCVS6H03	10161001702	S	3/4	-	6,80	5	17,1	46	140	Art. 4.3	Art. 4.3
YCVS7H03	10161001802	S	7/8	22	6,80	5	17,1	46	140	Art. 4.3	Art. 4.3
YCVS 20-77GSHC-1	10160030002	L	7/8	22	13,20	10	19,8	46	140	Art. 4.3	Art. 4.3
YCVS 26-99GSHC-1	10160030102	L	11/8	-	19,02	10	25,6	46	140	N.A.	Art. 4.3
YCVS 31-BBGSHC-1	10160024402	L	13/8	35	29,10	10	31,0	46	140	N.A.	Art. 4.3
YCVS 31-DDGSHC-1	10160037002	L	15/8	-	29,10	10	31,0	46	140	N.A.	Art. 4.3

1B. MODELS WITH REINFORCED PISTON SPRING

Model	Part Number	Type	Connection		Kv (m³/h)	Min. OPD [kPa]	DN [mm]	PS [bar]	max TS [°C]	PED Cat. [F.G.1]	PED Cat. [F.G.2]
			Ø ODF								
			[inch]	[mm]							
YCVSH3H01	10162000602	S	3/8	-	1,60	15	7,9	46	140	Art. 4.3	Art. 4.3
YCVSH4H01	10162001202	S	1/2	-	2,64	15	11,1	46	140	Art. 4.3	Art. 4.3
YCVSH5H03	10162001102	S	5/8	16	4,00	15	13,0	46	140	Art. 4.3	Art. 4.3
YCVSH6H03	10162001002	S	3/4	-	6,80	15	17,1	46	140	Art. 4.3	Art. 4.3
YCVSH7H03	10162000902	S	7/8	22	6,80	15	17,1	46	140	Art. 4.3	Art. 4.3
YCVSH 20-77GSHC-1	10160034602	L	7/8	22	13,20	30	19,8	46	140	Art. 4.3	Art. 4.3
YCVSH 26-99GSHC-1	10160034702	L	11/8	-	19,02	30	25,6	46	140	N.A.	Art. 4.3
YCVSH 31-BBGSHC-1	10160037402	L	13/8	35	29,10	30	31,0	46	140	N.A.	Art. 4.3
YCVSH 31-DDGSHC-1	10160037102	L	15/8	-	29,10	30	31,0	46	140	N.A.	Art. 4.3

Check Valves suitable for A2L & A3 refrigerants (flammable refr.s) are available, mm connection are available. Please, contact Sanhua representative for more information.

SANHUA

**NOW, HERE'S
THE COOL PART.**



**FILTER-DRIERS
DESIGNED BY SANHUA**

Sanhua aftermarket parts combine world-class engineering and manufacturing technology with premium materials to deliver superior performance – generating peace of mind for major OEMs. So, when you need a filter-drier that's the best fit for the job, look for aftermarket parts engineered by Sanhua.

**Ask your local wholesaler for Sanhua
aftermarket parts today.**

sanhuaeurope.com

Efficient Removal of:



Sludge



Moisture



Acid



Dirt

DTG/L SERIES Uni-Flow Filter Driers



REFRIGERANT
R134a, R404A, R407C,
R410A, R507A

FILTRATION
20 µm

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

PS
48,3 bar



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

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

FEATURES

- Highly efficient in moisture absorption, filtering impurity, acid, paint remains and mud removal
- Hybrid desiccant
- Durable and solid filter cores
- Filtering fineness: 20 µm
- Corrosion resistant painting survives salt spray test of 500 hours
- Connection type: solder

CE RoHS PED & UL, VDE

TECHNICAL PARAMETERS

DESICCANT SELECTION TABLE

	Medium type	80% 3Å desiccant and 20% active alumina	100% 3Å desiccant
Refrigerant	HC	Applicable	Applicable
	HFC	Applicable	Applicable
	HFO	Applicable	Applicable
Oil ¹⁾	Mineral oil or AB	Applicable	Applicable
	Pure POE or PAG	Applicable	Applicable
	POE or PAG with additive	Not applicable	Applicable

Note: 1) When the systems use oil with additive, it is not recommended to use a core with alumina.

Pos. No.	Model Designation Legend	
1	Product Code DTG	Filter Drier Series Indicates unidirectional filter drier
2	Filter Core B F A E	Structure and Material Solid core, 100% 3Å desiccant Solid core, 80% 3Å desiccant and 20% active alumina Compact core, 100% 3Å desiccant Compact core, 80% 3Å desiccant and 20% active alumina
3	Internal Volume 10162000602 10162001202 10162001102 10162001002 10162000902 10160034602 28	Expressed in [inch³] 3 5 8 16 30 41 75 Expressed in [cm³] 49 82 131 262 492 672 1229
4	Pipe Connection 02 25 03 04 05 06 07 09 Connection Size 06 (08) * 10 12 (16) * (22) * 28	Pos. 5 shows "0": Solder [inch] 1/4 5/16 3/8 1/2 5/8 3/4 7/8 11/8 Pos. 5 shows "1": Solder [mm] 6 (5/16" version can be used e.g. DTG-B03 250) 10 12 (5/8" version can be used e.g. DTG-B08 050) (7/8" version can be used e.g. DTG-B16 070) 28
5	Pipe Connection 0 1*	Type Solder with inch connections Solder with metric connections
6	Version Number 901	Description Standard product



DECLARATION OF CONFORMITY
Pressure Equipment
Directive 2014/68/EU

DTG/L SERIES

Uni-Flow Filter Driers

General Characteristics of DTG-B Filter - Solder Connection

Filter	Model [inch]	Part Number (multi package) ¹⁾ [inch]	Nominal Volume		Connection	Weight [g]	PED Category ³⁾ (Fluid Group 1)
					Solder		
DTGB032s	DTG-B03 020-901	10230008302	3	49	1/4	160	Art. 4.3
DTGB033s	DTG-B03 030-901	10230008502	3	49	3/8	160	Art. 4.3
DTGB034s	DTG-B03 040-901	10230008602	3	49	1/2	160	Art. 4.3
DTGB052s	DTG-B05 020-901	10230010202	5	82	1/4	450	Art. 4.3
DTGB053s	DTG-B05 030-901	10230010502	5	82	3/8	450	Art. 4.3
DTGB054s	DTG-B05 040-901	10230010602	5	82	1/2	450	Art. 4.3
DTGB055s	DTG-B05 050-901	10230010702	5	82	5/8	450	Art. 4.3
DTGB082s	DTG-B08 020-901	10230009502	8	131	1/4	550	Art. 4.3
DTGB083s	DTG-B08 030-901	10230009302	8	131	3/8	550	Art. 4.3
DTGB084s	DTG-B08 040-901	10230009602	8	131	1/2	550	Art. 4.3
DTGB085s	DTG-B08 050-901	10230009702	8	131	5/8	550	Art. 4.3
DTGB162s	DTG-B16 020-901	10230012002	16	262	1/4	660	Art. 4.3
DTGB163s	DTG-B16 030-901	10230012202	16	262	3/8	660	Art. 4.3
DTGB164s	DTG-B16 040-901	10230012302	16	262	1/2	660	Art. 4.3
DTGB165s	DTG-B16 050-901	10230012402	16	262	5/8	660	Art. 4.3
DTGB166s	DTG-B16 060-901	10230012502	16	262	3/4	660	Art. 4.3
DTGB167s	DTG-B16 070-901	10230012602	16	262	7/8	660	Art. 4.3
DTGB303s	DTG-B30 030-901	10230013902	30	492	3/8	1550	Art. 4.3
DTGB304s	DTG-B30 040-901	10230014002	30	492	1/2	1550	Art. 4.3
DTGB305s	DTG-B30 050-901	10230014102	30	492	5/8	1550	Art. 4.3
DTGB306s	DTG-B30 060-901	10230014202	30	492	3/4	1550	Art. 4.3
DTGB307s	DTG-B30 070-901	10230014302	30	492	7/8	1550	Art. 4.3
DTGB309s	DTG-B30 090-901	10230014402	30	492	1 1/8	1550	Art. 4.3
DTGB414s	DTG-B41 040-901	10230013202	41	672	1/2	2050	Art. 4.3
DTGB415s	DTG-B41 050-901	10230013302	41	672	5/8	2050	Art. 4.3
DTGB417s	DTG-B41 070-901	10230013402	41	672	7/8	2050	Art. 4.3
DTGB419s	DTG-B41 090-901	10230013502	41	672	1 1/8	2050	Art. 4.3
DTGB757s	DTG-B75 070-901	10230014902	75	1229	7/8	3400	Art. 4.3
DTGB759s	DTG-B75 090-901	10230015002	75	1229	1 1/8	3400	Art. 4.3

*Models are for dtg-b models (100% max moisture absorption 3a dessicant) & dtg-f models are available with 80% moisture absorption. 20% Active Alumina.

General Characteristics of DTG-B Filter - Flare Connection

Filter	Model	Part Number (multi package) ¹⁾	Nominal Volume		Connection	Weight [g]	PED Category ³⁾ (Fluid Group 2)
			[inch ³]	[cm ³]	SAE Flare		
					[inch]		
DTGB032	DTG-B03 024-901	10230009202	3	49	1/4	160	Art. 4.3
DTGB033	DTG-B03 034-901	10230009102	3	49	3/8	160	Art. 4.3
DTGB034	DTG-B03 044-901	10230009002	3	49	1/2	160	Art. 4.3
DTGB052	DTG-B05 024-901	10230009802	5	82	1/4	450	Art. 4.3
DTGB053	DTG-B05 034-901	10230009902	5	82	3/8	450	Art. 4.3
DTGB082	DTG-B08 024-901	10230010002	8	131	1/4	550	Art. 4.3
DTGB083	DTG-B08 034-901	10230010302	8	131	3/8	550	Art. 4.3
DTGB084	DTG-B08 044-901	10230010102	8	131	1/2	550	Art. 4.3
DTGB162	DTG-B16 024-901	10230011502	16	262	1/4	660	Art. 4.3
DTGB163	DTG-B16 034-901	10230011702	16	262	3/8	660	Art. 4.3
DTGB164	DTG-B16 044-901	10230011902	16	262	1/2	660	Art. 4.3
DTGB165	DTG-B16 054-901	10230011802	16	262	5/8	660	Art. 4.3
DTGB166	DTG-B16 064-901	10230013102	16	262	3/4	660	Art. 4.3
DTGB303	DTG-B30 034-901	10230015402	30	492	3/8	1550	Art. 4.3
DTGB304	DTG-B30 044-901	10230015502	30	492	1/2	1550	Art. 4.3
DTGB305	DTG-B30 054-901	10230015702	30	492	5/8	1550	Art. 4.3
DTGB306	DTG-B30 064-901	10230015802	30	492	3/4	1550	Art. 4.3
DTGB053	DTG-B30 074-901	10230015602	30	492	7/8	1550	Art. 4.3
DTGB414	DTG-B41 044-901	10230015302	41	672	1/2	2050	Art. 4.3
DTGB415	DTG-B41 054-901	10230015202	41	672	5/8	2050	Art. 4.3

Note: 1) Available also as industrial package. Contact Sanhua for more details.
2) Dimensions are rounded up to integral mm.
3) PED Directive 2014/68/EU. Category evaluated considering product as a "vessel".



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

STG/L SERIES Bi-Flow Filter Drier



REFRIGERANT
R134a, R404A, R407C,
R410A, R507A

FILTRATION
20 µm

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

PS
48,3 bar

FEATURES

- High efficient in moisture absorption, filtering impurity, acid, paint remains and mud removal
- Hybrid desiccant
- Durable and solid filter cores

- Filtering fineness: 20 µm
- Corrosion resistant painting can survive salt spray test of 500 hours
- Connection type: flare or solder

CE RoHS PED & UL, VDE

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

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

General Characteristics of STG-B Filter - Solder Connection

Filter	Model [inch]	Part Number (multi package) ¹⁾ [inch]	Model [mm]	Part Number (multi package) ¹⁾ [mm]	Nominal Volume		Connection	Dimensions & Weight ²⁾				PED Category ³⁾ (Fluid Group 1)
							Solder	Ø	B	A	Weight	
					[inch ³]	[cm ³]	[inch]	[mm]	[mm]	[mm]	[g]	
STGB052s	STG-B05 020-901	10235005902	STG-B05 061-901	10235007602	5	82	1/4	69	76	114	450	Art. 4.3
STGB053s	STG-B05 030-901	10235006002	STG-B05 101-901	10235007802	5	82	3/8	69	76	114	450	Art. 4.3
STGB054s	STG-B05 040-901	10235006102	STG-B05 121-901	10235007902	5	82	1/2	69	76	124	450	Art. 4.3
STGB082s	STG-B08 020-901	10235006202	STG-B08 061-901	10235007702	8	131	1/4	69	98	136	580	Art. 4.3
STGB0825s	STG-B08 250-901	10235007402	STG-B08 250-901	10235007402	8	131	5/16	69	98	136	580	Art. 4.3
STGB083s	STG-B08 030-901	10235006302	STG-B08 101-901	10235008002	8	131	3/8	69	98	136	580	Art. 4.3
STGB084s	STG-B08 040-901	10235006402	STG-B08 121-901	10235008102	8	131	1/2	69	98	146	580	Art. 4.3
STGB163s	STG-B16 030-901	10235006602	STG-B16 101-901	10235008202	16	262	3/8	81	118	156	900	Art. 4.3
STGB164s	STG-B16 040-901	10235006502	STG-B16 121-901	10235008402	16	262	1/2	81	118	166	900	Art. 4.3
STGB165s	STG-B16 050-901	10235006702	STG-B16 050-901	10235006702	16	262	5/8	81	118	166	900	Art. 4.3
STGB167s	STG-B16 070-901	10235006802	STG-B16 070-901	10235006802	16	262	7/8	81	118	178	900	Art. 4.3
STGB303s	STG-B30 030-901	10235006902	STG-B30 101-901	10235008302	30	492	3/8	81	193	231	1700	Art. 4.3
STGB304s	STG-B30 040-901	10235007002	STG-B30 121-901	10235008502	30	492	1/2	81	193	241	1700	Art. 4.3
STGB305s	STG-B30 050-901	10235007102	STG-B30 050-901	10235007102	30	492	5/8	81	193	241	1700	Art. 4.3
STGB306s	STG-B30 060-901	10235007202	-	-	30	492	3/4	81	193	253	1700	Art. 4.3
STGB307s	STG-B30 070-901	10235007302	STG-B30 070-901	10235007302	30	492	7/8	81	193	253	1700	Art. 4.3
STGB309s	STG-B30 090-901	10235007502	STG-B30 281-901	10235010202	30	492	11/8	81	193	263	1700	Art. 4.3

- Note:** 1) Available also as industrial package. Contact Sanhua for more details.
2) Dimensions are rounded up to integral mm.
3) PED Directive 2014/68/EU. Category evaluated considering product as a "vessel".

HTG SERIES

Filter Driers with (Replaceable Core)



REFRIGERANT
R134a, R404A, R407C, R410A, R507A

FILTRATION
20 µm

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

PS
45 bar



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

FEATURES

- High efficient in moisture absorption, filtering impurity, acid, paint remains and mud removal
- Different types of filter cores
- Durable and solid filter cores

- Filtering fineness: 20 µm
- Corrosion resistant painting can survive salt spray test of 500 hours
- Connection type: solder



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

- 50 ppm R134a • 50 ppm R404A
- 50 ppm R407C • 50 ppm R410A • 50 ppm R507A

GENERAL CHARACTERISTICS OF FILTER

Series	Model	Part Number (multi package)*	Solder Connections ODF	Number of cores	Dimensions & Weight					Design Pressure (MPa)	PED category
					A	B	L	G	Weight ¹⁾		
					[mm]	[mm]	[mm]	[mm]	[kg]		
HTG A48s	HTG-A48050-901	10225004502	5/8	1	250	164	170	116	5,1	4,5	Cat. I
	HTG-A48070-901	10225004402	7/8		249	163	170	116	5,1	4,5	
	HTG-A48090-901	10225004302	1 1/8		254	168	170	121	5,1	4,5	
	HTG-A48110-901	10225004102	1 3/8		253	167	170	121	5,1	4,5	
	HTG-A48130-901	10225004002	1 5/8		272	186	170	141	5,1	4,5	
	HTG-A48170-901	10225003902	2 1/8		275	182	170	145	5,1	4,5	
HTG A96s	HTG-A48210-901	10225003702	2 5/8	2	277	177	170	149	5,1	4,5	
	HTG-A96050-901	10225003602	5/8		391	305	310	116	6,2	4,5	
	HTG-A96070-901	10225003502	7/8		390	304	310	116	6,2	4,5	
	HTG-A96090-901	10225003302	1 1/8		395	309	310	121	6,2	4,5	
	HTG-A96110-901	10225003202	1 3/8		394	308	310	121	6,2	4,5	
	HTG-A96130-901	10225003102	1 5/8		413	327	310	141	6,2	4,5	
HTG B44s	HTG-A96170-901	10225002902	2 1/8	3	416	323	310	145	6,2	4,5	
	HTG-A96210-901	10225002802	2 5/8		418	318	310	149	6,2	4,5	
	HTG-B44050-901	10225002702	5/8		532	446	310	116	7,6	4,5	
	HTG-B44070-901	10225002602	7/8		531	445	310	116	7,6	4,5	
	HTG-B44090-901	10225002502	1 1/8		536	450	310	121	7,6	4,5	
	HTG-B44281-901	10225002402	-		536	450	310	121	7,6	4,5	
HTG B92s	HTG-B44110-901	10225002302	1 3/8	4	535	449	310	121	7,6	4,5	
	HTG-B44130-901	10225002202	1 5/8		554	468	310	141	7,6	4,5	
	HTG-B44421-901	10225002102	-		554	468	310	141	7,6	4,5	
	HTG-B44170-901	10225001902	2 1/8		557	464	310	145	7,6	4,5	
	HTG-B44210-901	10225001802	2 5/8		559	459	310	149	7,6	4,5	
	HTG-B92050-901	10225001702	5/8		677	591	310	116	9,1	4,5	
HTG B92s	HTG-B92070-901	10225001602	7/8	4	676	590	310	116	9,1	4,5	
	HTG-B92090-901	10225001502	1 1/8		681	595	310	121	9,1	4,5	
	HTG-B92110-901	10225001402	1 3/8		680	594	310	121	9,1	4,5	
	HTG-B92130-901	10225002002	1 5/8		699	613	310	141	9,1	4,5	
	HTG-B92170-901	10225001202	2 1/8		702	609	310	145	9,1	4,5	
	HTG-B92210-901	10225001102	2 5/8		704	604	310	149	9,1	4,5	

Note: Available also as industrial package. Contact Sanhua for more details.
1) Weight of filter shell (must be added the filter core weight: 0.6 kg).

	Medium Type	30% 3A desiccant 70% active alumina	80% 3A desiccant 20% active alumina	100% 3A desiccant	Mechanical strainer
Core Model	-	SH48-A30	SH48-A80	SH48-A00	SH48-B00
With flange gasket suitable for Sanhua shells: Ø113.6 mm x Ø121.4 mm	-	20225000102	20225000902	20225001102	20225003302
With flange gasket suitable for Sanhua and others shells: Ø113.6 mm x Ø121.4 mm and Ø105.4 mm x Ø113.6 mm	-	20225028602	20225027702	20225028502	20225028702
Suggested Installation Position	-	Suction Line	Liquid Line	Liquid Line	Suction Line
Refrigerant	HFC	Applicable	Applicable	Suggested	Suggested
	HCFC	Suggested	Suggested	Applicable	Applicable
	HC/HFO	Applicable	Applicable	Applicable	Applicable
Oil ¹⁾	Mineral oil or AB	Suggested	Suggested	Applicable	Applicable
	Pure POE or PAG	Applicable	Applicable	Suggested	Suggested
	POE or PAG with additive	Not Applicable	Not Applicable	Applicable	Applicable

Note: 1) When the systems use oil with additive, it is not recommended to use a core with alumina.

SANHUA

Go green with SANHUA A2L

SELECT HIGH RELIABILITY - SELECT RFKH FOR A2L

SANHUA RFKH thermostatic expansion valves
with 8 sizes of interchangeable orifices

Stainless steel capillary, sensing
bulb and valve head for **precise and
smooth flow regulation**

Diaphragm with a **high tensile strength**

Settable Consistent Superheat

Excellent performance
at low temperatures

**Robustness & High
resistance to corrosion**



Wide range of models as flare or solder for MBP/LBP applications,
- with or without external pressure equalization - also with MOP

Designed for R407C, R404A, R507A, R134a, R404A, R410A, R407A,
R407F, R448A, R449A, R452A, R450A, R513A, R455A, R454C



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ACM P SERIES ACCUMULATOR



FEATURES

- Inlet and outlet are made of copper tubes.
- Air guiding part direct the refrigerant toward the wall which from a slipstream to make the refrigerant expand quickly and slow the flow to let the liquid drop down. This effectively separates the liquid and gas.
- The U tube design guarantee a max flow of refrigerant and stop little lubrication oil.
- The inlet of U tube is behind air guiding part which can prevent the liquid from entering compressor. At the same time, it can change the direction of refrigerant to completely separate the liquid and gas.
- The balancing hole in the upper U tube can effectively eliminate the siphon caused the restart of system so as to avoid excessive liquid entering compressor.
- The oil return hole is matching the system capacity to optimize the flow of liquid refrigerant and lubrication oil into compressor.
- Connection tube, U tube and volume of accumulator is designed based on the basic demand of heat pump system allows a proper and reliable liquid refrigerant and lubrication oil back to compressor. This combination is to achieve a minimum pressure drop and largest refrigerant capacity.
- Power coated surface can survive 500 hours of salt spray test.
- Incorporated fuse of 220 °C.

REFRIGERANT

CFC, HCFC, HFC and HFO

APPLICABLE MEDIUM

TEMPERATURE:
-30°C ~+120°C (22°F~+240°F)

APPLICABLE AMBIENT

TEMPERATURE:
-35°C ~+55°C (22°F~+131°F)

MAXIMUM WORKING

PRESSURE:
2.5 MPa

CERTIFICATION:

UL, CSA and PED

Accumulator is installed between the suction port of the refrigerating system compressors and evaporator to separate gas and fluid, store fluid, return oil and filter.

Model	D mm	L mm	d1 mm	L1 mm	d2 mm	N meshes/in	Screw Size M	d2 mm	Volume L
ACM-P21076-901	76	185.8	16.12	34.3	1.0	60	3/8-16UNC-2A	1.0	0.63
ACM-P22076-901	76	268.8	16.12	34.3	1.0	60	3/8-16UNC-2A	1.0	0.98
ACM-P23076-901	76	382.3	16.12	34.3	1.0	60	3/8-16UNC-2A	1.0	1.46
ACM-P221101-901	101.6	251	16.12	34.3	1.0	60	3/8-16UNC-2A	1.0	1.59
ACM-P221101-901	101.6	251	16.12	34.3	1.4	30	3/8-16UNC-2A	1.4	1.59
ACM-P23101-901	101.6	251	19.17	34.3	1.0	60	3/8-16UNC-2A	1.0	1.59
ACM-P24101-901	101.6	251	19.17	34.3	1.4	30	3/8-16UNC-2A	1.4	1.59
ACM-P23101-901	101.6	282.3	16.12	34.3	1.0	60	3/8-16UNC-2A	1.0	1.83
ACM-P26101-901	101.6	282.3	16.12	34.3	1.4	30	3/8-16UNC-2A	1.4	1.83
ACM-P27101-901	101.6	282.3	19.17	34.3	1.0	60	3/8-16UNC-2A	1.0	1.83
ACM-P28101-901	101.6	282.3	19.17	34.3	1.4	30	3/8-16UNC-2A	1.4	1.83
ACM-P29101-901	101.6	320	16.12	34.3	1.0	60	3/8-16UNC-2A	1.0	2.11
ACM-P30101-901	101.6	320	16.12	34.3	1.4	30	3/8-16UNC-2A	1.4	2.11
ACM-P31101-901	101.6	320	19.17	34.3	1.0	60	3/8-16UNC-2A	1.0	2.11
ACM-P32101-901	101.6	320	19.17	34.3	1.4	30	3/8-16UNC-2A	1.4	2.11
ACM-P33101-901	101.6	357.1	16.12	34.3	1.0	60	3/8-16UNC-2A	1.0	2.39
ACM-P34101-901	101.6	357.1	16.12	34.3	1.4	30	3/8-16UNC-2A	1.4	2.39
ACM-P35101-901	101.6	357.1	19.17	34.3	1.0	60	3/8-16UNC-2A	1.0	2.39
ACM-P36101-901	101.6	357.1	19.17	34.3	1.4	30	3/8-16UNC-2A	1.4	2.39
ACM-P37101-901	101.6	432.1	16.12	34.3	1.0	60	3/8-16UNC-2A	1.0	2.96
ACM-P38101-901	101.6	432.1	16.12	34.3	1.4	30	3/8-16UNC-2A	1.4	2.96
ACM-P39101-901	101.6	432.1	19.17	34.3	1.0	60	3/8-16UNC-2A	1.0	2.96
ACM-P40101-901	101.6	432.1	19.17	34.3	1.4	30	3/8-16UNC-2A	1.4	2.96
ACM-P21127-901	127	250.4	22.35	40.4	1.4	30	3/8-16UNC-2A	1.4	2.49
ACM-P22127-901	127	250.4	22.35	40.4	1.0	60	3/8-16UNC-2A	1.0	2.49
ACM-P23127-901	127	244.3	19.17	34.3	1.4	30	3/8-16UNC-2A	1.4	2.49
ACM-P24127-901	127	244.3	19.17	34.3	1.0	60	3/8-16UNC-2A	1.0	2.49
ACM-P25127-901	127	293.9	22.35	40.4	1.4	30	3/8-16UNC-2A	1.4	3.01
ACM-P26127-901	127	293.9	22.35	40.4	1.0	60	3/8-16UNC-2A	1.0	3.01
ACM-P27127-901	127	287.8	19.17	34.3	1.4	30	3/8-16UNC-2A	1.4	3.01
ACM-P28127-901	127	287.8	19.17	34.3	1.0	60	3/8-16UNC-2A	1.0	3.01
ACM-P29127-901	127	327.2	22.35	40.4	1.4	30	3/8-16UNC-2A	1.4	3.41
ACM-P30127-901	127	327.2	22.35	40.4	1.0	60	3/8-16UNC-2A	1.0	3.41
ACM-P31127-901	127	321.1	19.17	34.3	1.4	30	3/8-16UNC-2A	1.4	3.41
ACM-P32127-901	127	321.1	19.17	34.3	1.0	60	3/8-16UNC-2A	1.0	3.41
ACM-P33127-901	127	389.6	22.35	40.4	1.4	30	3/8-16UNC-2A	1.4	4.14
ACM-P34127-901	127	389.6	22.35	40.4	1.0	60	3/8-16UNC-2A	1.0	4.14
ACM-P35127-901	127	383.5	19.17	34.3	1.4	30	3/8-16UNC-2A	1.4	4.14
ACM-P36127-901	127	383.5	19.17	34.3	1.0	60	3/8-16UNC-2A	1.0	4.14
ACM-P37127-901	127	438.2	22.35	40.4	1.4	30	3/8-16UNC-2A	1.4	4.72
ACM-P38127-901	127	438.2	22.35	40.4	1.0	60	3/8-16UNC-2A	1.0	4.72
ACM-P39127-901	127	432.1	19.17	34.3	1.4	30	3/8-16UNC-2A	1.4	4.72
ACM-P40127-901	127	432.1	19.17	34.3	1.0	60	3/8-16UNC-2A	1.0	4.72
ACM-P21153-901	152.4	366.3	28.63	48.3	2.03	30	1/2-13UNC-2A	2.03	5
ACM-P22153-901	152.4	370.3	35.15	52.3	2.03	30	1/2-13UNC-2A	2.03	5
ACM-P23153-901	152.4	408.3	28.63	48.3	2.03	30	1/2-13UNC-2A	2.03	5.7
ACM-P24153-901	152.4	412.3	35.15	52.3	2.03	30	1/2-13UNC-2A	2.03	5.7
ACM-P25153-901	152.4	475.5	28.63	48.3	2.03	30	1/2-13UNC-2A	2.03	6.8
ACM-P26153-901	152.4	479.5	35.15	52.3	2.03	30	1/2-13UNC-2A	2.03	6.8
ACM-P27153-901	152.4	530.1	28.63	48.3	2.03	30	1/2-13UNC-2A	2.03	7.8
ACM-P28153-901	152.4	534.1	35.15	52.3	2.03	30	1/2-13UNC-2A	2.03	7.8



YFQ-F SERIES Oil Separators

REFRIGERANT
R22, R502, R134A,
R407A, R410A

MEDIUM TEMPERATURE:
-30°C ~+120°C
(22°F ~+248°F)

AMBIENT TEMPERATURE:
-30°C ~+55°C
(22°F ~+131°F)

PS:
4.15 MPa

CERTIFICATION:
UL, and PED
declaration

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FEATURES

- Oil separation efficiency is over 90%
- Optimized structure design to reduce pressure drop and noise during operation
- Corrosion resistant painting survives salt spray test of 500 hours

CE RoHS PED & UL, VDE

TECHNICAL PARAMETERS

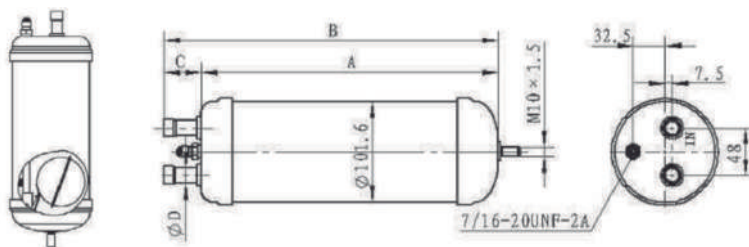
Model	Solder Connection ODF [inch]	Shell OD [mm]	Length [mm]	Oil pre-charge amount [ml]
YFQ-F00101-001	3/8	101.6	220	400
YFQ-F00101-002	1/2		287	
YFQ-F00101-003	5/8		341	
YFQ-F00101-004	7/8		396	
YFQ-F00101-005	1-1/8		426	

YFQ-F series oil separators are used for commercial AC and refrigeration system, be installed at the outlet of compressor to separate gas and oil, to ensure oil returns to compressor and reduce oil entering system.

CAPACITY TABLE

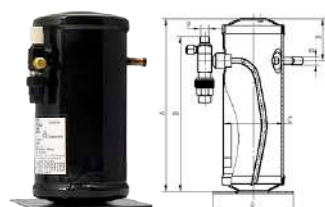
Model	R22/R407C		R134a		R404A/R507A		R410A	
	-40°C	4°C	-40°C	4°C	-40°C	4°C	-40°C	4°C
	kW	kW	kW	kW	kW	kW	kW	kW
YFQ-F00101-001	5.0	6.8	3.1	6.0	5.1	6.8	6.8	9.3
YFQ-F00101-002	5.3	7.0	3.2	6.2	5.3	7.0	8.1	10.6
YFQ-F00101-003	15.8	19.3	11.4	15.8	14.4	19.3	24.0	29.3
YFQ-F00101-004	24.6	28.1	16.7	22.4	22.8	28.8	37.4	42.2
YFQ-F00101-005	31.7	37.0	22.4	29.9	30.0	37.4	52.8	56.2

DIMENSIONS



LRA SERIES LIQUID RECEIVERS

Liquid receiver are usually installed in liquid line of refrigeration or AC systems to store excessive refrigerant when the load of the system changes.



FEATURES

- The inlet tube has solder connection
- Outlet connection has angle valve structure
- Internal flow-out is realized by suction tube from the bottom of the receiver

Powder coated surface can survive 500 hours of salt spray test

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C	LRA-C01089-901 ¹	10210016101	1.5	254	224	Ø89	63.5	Ø9.7 ±0.1	Ø9.7 ±0.1	120
	LRA-C02127-901 ¹	10210016301	2.5	257	240	Ø127	63.5	Ø9.7 ±0.1	Ø9.7 ±0.1	165.1
	LRA-C03153-901 ¹	10210018201	5.2	307.8	270.8	Ø152.4	63.5	Ø9.7 ±0.1	Ø9.7 ±0.1	165.1
	LRA-C04153-901 ¹	10210015401	6.8	409.4	372	Ø152.4	63.5	Ø9.7 ±0.1	Ø9.7 ±0.1	165.1
	LRA-C05153-901 ¹	10210016201	7.7	460	423.2	Ø152.4	63.5	Ø12.85 ±0.1	Ø12.85 ±0.1	165.1
	LRA-C06153-901 ¹	10210018101	9.9	587.2	550.2	Ø152.4	63.5	Ø12.85 ±0.1	Ø12.85 ±0.1	165.1

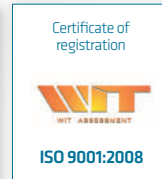
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SANHUA INTERNATIONAL
info@sanhuaeurope.com

Technical information
sanhuaeurope.com



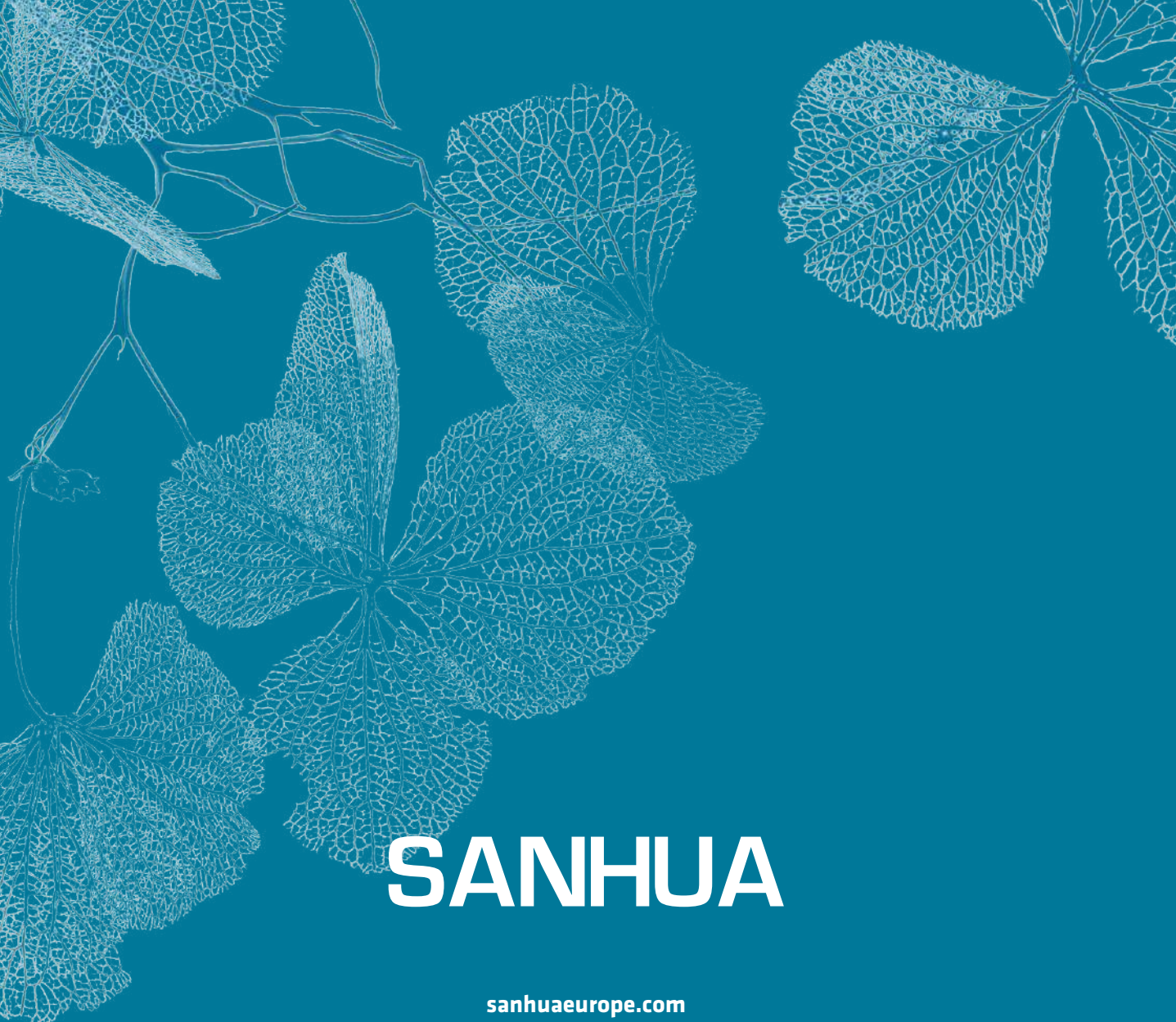
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