

SANHUA STANDARD PRODUCT



*Air
conditioning
Commercial
refrigeration
Heat Pump*



SANHUA

*“Strive for perfection,
Pursuit of excellence”*

Sanhua is a leading HVAC&R manufacturer of controls and components with a global footprint and 35 years of experience. Our co-operation with the largest companies in the Automotive, Appliance and HVAC&R industry makes Sanhua a leading worldwide OEM supplier providing the highest quality components at the most competitive price.

SUMMARY

THERMOSTATIC EXPANSION VALVE RFKH series

THERMOSTATIC EXPANSION VALVE RFGB series

THERMOSTATIC EXPANSION VALVE RFGD series

ELECTRONIC EXPANSION VALVE DPF-TS/S series

ELECTRONIC EXPANSION VALVE LPF series

ELECTRONIC EXPANSION VALVE CONTROLLER SEC61X 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

PRESSURE SENSOR YCQB series

PRESSURE SENSOR YCQC series

PRESSURE SWITCH PS01/50/15 series

4 WAY REVERSING VALVE SHF series

BALL VALVE SBV series

BALL VALVE SBV-R series

BALL VALVE RBV-R series

BALL VALVE CBV series

BALL VALVE CBVT series

CHECK VALVE PISTON TYPE YCV series

SIGHT GLASS SYJ series

1.5 IN³ FILTER DRIER DTG-M02 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.

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

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

TECHNICAL PARAMETERS

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

Ref.	Model Valve Body	Part Number ^{1,4}	Connection type		Inlet ØA	Outlet ØB			Ext. ØC		
			In / Out / Ext. Pressure Equal.	Flare		Solder		Flare	Solder	Solder	
				[inch]	[inch]	[mm]	[inch]	[inch]	[inch]	[mm]	
R407C	RFKH02-6.3-24	10201002902	flare / flare	3/8	1/2	-	-	-	-	-	-
	RFKH02E-6.3-20	10201002802	flare / flare / flare			1/2	-	-	1/4	-	-
	RFKH02-6.3-27	10201003002	flare / solder			-	12	-	-	-	-
	RFKH02E-6.3-28	10201003102	flare / solder / solder			-	12	-	-	-	6
	RFKH02-6.3-32	10201003202	flare / solder			-	-	1/2	-	-	-
	RFKH02E-6.3-18	10201002702	flare / solder / solder	-	-	1/2	-	1/4	-		
R404A / R507A	RFKH03-4.8-21	10201003702	flare / flare	3/8	1/2	-	-	-	-	-	
	RFKH03E-4.8-15	10201003802	flare / flare / flare			1/2	-	-	1/4	-	-
	RFKH03-4.8-03	10201003402	flare / solder			-	12	-	-	-	-
	RFKH03E-4.8-02	10201003302	flare / solder / solder			-	12	-	-	-	6
	RFKH03-4.8-09	10201003502	flare / solder			-	-	1/2	-	-	-
	RFKH03E-4.8-10	10201003602	flare / solder / solder	-	-	1/2	-	1/4	-		
R134a	RFKH04-2.9-23	10201004102	flare / flare	3/8	1/2	-	-	-	-	-	
	RFKH04E-2.9-19	10201004002	flare / flare / flare			1/2	-	-	1/4	-	-
	RFKH04-2.9-29	10201004202	flare / solder			-	12	-	-	-	-
	RFKH04E-2.9-17	10201003902	flare / solder / solder			-	12	-	-	-	6
	RFKH04-2.9-30	10201004302	flare / solder			-	-	1/2	-	-	-
	RFKH04E-2.9-31	10201004402	flare / solder / solder	-	-	1/2	-	-	1/4		
R410A	RFKH05-7.6-66	10201005702	flare / flare	3/8	1/2	-	-	-	-	-	
	RFKH05E-7.6-33	10201005202	flare / flare / flare			1/2	-	-	1/4	-	-
	RFKH05-7.6-37	10201005602	flare / solder			-	12	-	-	-	-
	RFKH05E-7.6-36	10201005502	flare / solder / solder			-	12	-	-	-	6
	RFKH05-7.6-35	10201005402	flare / solder			-	-	1/2	-	-	-
	RFKH05E-7.6-34	10201005302	flare / solder / solder	-	-	1/2	-	-	1/4		
R407A / R407F	RFKH07-6.0-43	10201004802	flare / flare	3/8	1/2	-	-	-	-	-	
	RFKH07E-6.0-42	10201004702	flare / flare / flare			1/2	-	-	1/4	-	-
	RFKH07-6.0-44	10201004902	flare / solder			-	12	-	-	-	-
	RFKH07E-6.0-41	10201004602	flare / solder / solder			-	12	-	-	-	6
	RFKH07-6.0-45	10201005002	flare / solder			-	-	1/2	-	-	-
	RFKH07E-6.0-46	10201005102	flare / solder / solder	-	-	1/2	-	-	1/4		
R448A / R449A	RFKH08-6.1-49	10201012802	flare / flare	3/8	1/2	-	-	-	-	-	
	RFKH08E-6.1-48	10201012402	flare / flare / flare			1/2	-	-	1/4	-	-
	RFKH08-6.1-50	10201013302	flare / solder			-	12	-	-	-	-
	RFKH08E-6.1-47	10201012302	flare / solder / solder			-	12	-	-	-	6
	RFKH08-6.1-51	10201012502	flare / solder			-	-	1/2	-	-	-
	RFKH08E-6.1-52	10201012602	flare / solder / solder	-	-	1/2	-	1/4	-		
R450A	RFKH10-2.8-61	10201016102	flare / flare	3/8	1/2	-	-	-	-	-	
	RFKH10E-2.8-60	10201016002	flare / flare / flare			1/2	-	-	1/4	-	-
	RFKH10-2.8-72	10201016202	flare / solder			-	12	-	-	-	-
	RFKH10E-2.8-59	10201015902	flare / solder / solder			-	12	-	-	-	6
	RFKH10-2.8-63	10201016302	flare / solder			-	-	1/2	-	-	-
	RFKH10E-2.8-64	10201016402	flare / solder / solder	-	-	1/2	-	1/4	-		
R452A	RFKH11-4.5-55	10201013602	flare / flare	3/8	1/2	-	-	-	-	-	
	RFKH11E-4.5-54	10201013502	flare / flare / flare			1/2	-	-	1/4	-	-
	RFKH11-4.5-56	10201013702	flare / solder			-	12	-	-	-	-
	RFKH11E-4.5-53	10201013402	flare / solder / solder			-	12	-	-	-	6
	RFKH11-4.5-57	10201013802	flare / solder			-	-	1/2	-	-	-
	RFKH11E-4.5-58	10201013902	flare / solder / solder	-	-	1/2	-	1/4	-		
R513A	RFKH14-2.7-68	10201016802	flare / flare	3/8	1/2	-	-	-	-	-	
	RFKH14E-2.7-67	10201016702	flare / flare / flare			1/2	-	-	1/4	-	-
	RFKH14-2.7-70	10201016902	flare / solder			-	12	-	-	-	-
	RFKH14E-2.7-65	10201016502	flare / solder / solder			-	12	-	-	-	6
	RFKH14-2.7-71	10201017002	flare / solder			-	-	1/2	-	-	-
	RFKH14E-2.7-76	10201017102	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



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

Tab. D : Models with Range B : Temperature Range from -60°C to -25°C [without MOP]

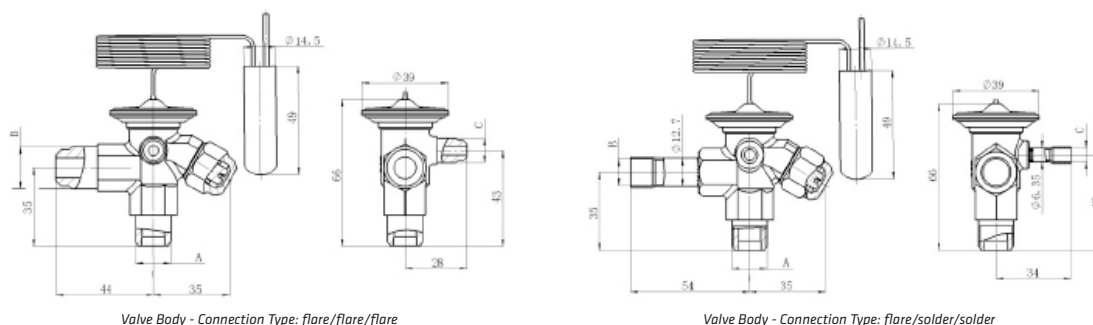
Ref.	Model Valve Body	Part Number ⁴⁾	Connection type In / Out / Ext. Pressure Equal.	Inlet ØA		Outlet ØB			Ext. ØC		
				Flare [inch]	Flare [inch]	Flare [mm]	Solder [inch]	Flare [inch]	Solder [inch]	Solder [mm]	
R404A / R507A	RFKH03-4.8-106	10201017902	flare / flare	3/8	1/2	-	-	-	-	-	-
	RFKH03E-4.8-105	10201017802	flare / flare / flare		1/2	-	-	1/4	-	-	-
	RFKH03-4.8-102	10201017502	flare / solder		-	12	-	-	-	-	-
	RFKH03E-4.8-101	10201017402	flare / solder / solder		-	12	-	-	-	-	6
	RFKH03-4.8-103	10201017602	flare / solder		-	-	1/2	-	-	-	-
	RFKH03E-4.8-104	10201017702	flare / solder / solder		-	-	1/2	-	1/4	-	-

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

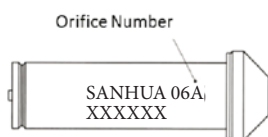
Ref.	Model Valve Body	Part Number ⁴⁾	Connection type In / Out / Ext. Pressure Equal.	Inlet ØA		Outlet ØB			Ext. ØC		
				Flare [inch]	Flare [inch]	Flare [mm]	Solder [inch]	Flare [inch]	Solder [inch]	Solder [mm]	
R404A / R507A	RFKH03-4.8-406	10201015602	flare / flare	3/8	1/2	-	-	-	-	-	-
	RFKH03E-4.8-405	10201014402	flare / flare / flare		1/2	-	-	1/4	-	-	-
	RFKH03-4.8-402	10201015802	flare / solder		-	12	-	-	-	-	-
	RFKH03E-4.8-401	10201015302	flare / solder / solder		-	12	-	-	-	-	6
	RFKH03-4.8-403	10201015402	flare / solder		-	-	1/2	-	-	-	-
	RFKH03E-4.8-404	10201015502	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



ORIFICE

Valve Orifice Model	Part Number	Orifice Number	Nominal Capacity ¹⁾ [kW]								
			R407C ²⁾	R404A R507A	R134a	R410A	R407A R407F	R448A	R449A	R452A	R513A
RFKH-023-0X	10202001702	0X	1.0	0.7	0.69	1.3	1.0	1.1	1.0	0.8	0.6
RFKH-023-00	10202001002	0	2.1	1.4	1.2	2.5	1.8	2.1	2.0	1.5	1.0
RFKH-023-01	10202001102	1	4.0	2.8	2.1	5.0	3.7	4.0	4.0	3.0	1.8
RFKH-023-02	10202001202	2	5.4	4.0	2.7	6.2	5.1	5.0	4.9	3.7	2.2
RFKH-023-03	10202001302	3	9.2	6.8	4.4	11.2	8.6	8.9	8.8	6.7	4.0
RFKH-023-04	10202001402	4	13.9	10.8	6.5	17.0	13.4	13.6	13.4	10.1	6.1
RFKH-023-05	10202001502	5	18.5	14.1	8.6	21.3	17.6	17.0	16.8	12.7	7.6
RFKH-023-06	10202001602	6	22.1	16.8	10.3	26.8	21.2	21.4	21.1	16.0	9.6

- 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		10mm
RFK-A04-038012	20201002602		1/4"
RFK-A04-038013	20201002702		6mm

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

SOLDER ADAPTERS FOR RFKH EXTERNAL PRESSURE EQUALIZATION C

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

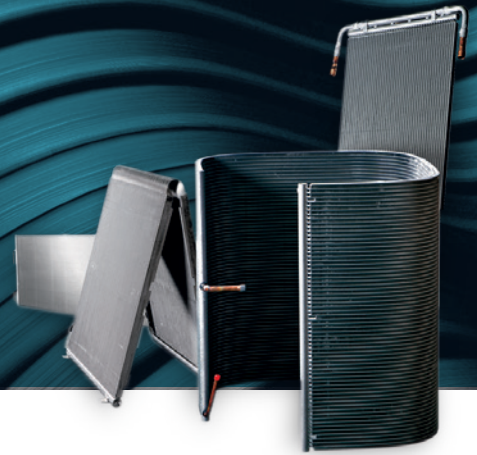
Note: 1) Copper pipe and flare nut are in the extent of delivery

SANHUA

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MICRO-CHANNEL HEAT EXCHANGERS

**SANHUA DELIVERED OVER 5 MILLION
MCHE CONDENSERS (CO&HP) AND
EVAPORATORS HELPING TO IMPROVE
SYSTEM EFFICIENCY BY UP TO 30%**



**SANHUA IS THE WORLD'S LARGEST PRODUCER
OF MICRO-CHANNEL HEAT EXCHANGERS FOR
STATIONARY HVAC&R APPLICATION**

IMPROVES EFFICIENCY BY 30%

REFRIGERANT CHARGE REDUCTION BY 30% ENVIRONMENTAL FRIENDLY

MCHE IS LIGHTER IN WEIGHT, SMALLER IN VOLUME COMPACT DESIGN

DISCOVER WHY
sanhuaeurope.com

RFGD SERIES

Thermostatic Expansion Valve



REFRIGERANT
R134a, R404A,
R407C, R410A, R507

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

PS
45 bar

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

TECHNICAL DATA *Nominal Capacities¹*

R407C ²⁾		R404A / R507A		R134a		R410A	
PS: 2,8 MPa		PS: 3,5 MPa		PS: 2,1 MPa		PS: 4,5 MPa	
Model Name ³⁾	Capacity	Model Name ³⁾	Capacity	Model Name ³⁾	Capacity	Model Name ³⁾	Capacity
	[kW]		[kW]		[kW]		[kW]
RFGD 02-1	10,9	RFGD 03-1	7,0	RFGD 04-1	6,3	RFGD 05-1	12,3
RFGD 02E-1		RFGD 03E-1		RFGD 04E-1		RFGD 05E-1	
RFGD 02-2	14,8	RFGD 03-2	9,8	RFGD 04-2	8,8	RFGD 05-2	15,8
RFGD 02E-2		RFGD 03E-2		RFGD 04E-2		RFGD 05E-2	
RFGD 02-3	22,2	RFGD 03-3	14,8	RFGD 04-3	12,7	RFGD 05-3	24,6
RFGD 02E-3		RFGD 03E-3		RFGD 04E-3		RFGD 05E-3	
RFGD 02-4	28,5	RFGD 03-4	19,0	RFGD 04-4	16,2	RFGD 05-4	30,2
RFGD 02E-4		RFGD 03E-4		RFGD 04E-4		RFGD 05E-4	
RFGD 02-5	33,1	RFGD 03-5	22,5	RFGD 04-5	19,3	RFGD 05-5	37,3
RFGD 02E-5		RFGD 03E-5		RFGD 04E-5		RFGD 05E-5	
RFGD 02-6	41,1	RFGD 03-6	27,4	RFGD 04-6	23,9	RFGD 05-6	45,0
RFGD 02E-6		RFGD 03E-6		RFGD 04E-6		RFGD 05E-6	
RFGD 02-7	42,2	RFGD 03-7	31,7	RFGD 04-7	28,1	RFGD 05-7	52,8
RFGD 02E-7		RFGD 03E-7		RFGD 04E-7		RFGD 05E-7	
RFGD 02-8	52,8	RFGD 03-8	38,7	RFGD 04-8	35,2	RFGD 05-8	66,8
RFGD 02E-8		RFGD 03E-8		RFGD 04E-8		RFGD 05E-8	
RFGD 02-9	63,3	RFGD 03-9	45,7	RFGD 04-9	42,2	RFGD 05-9	80,9
RFGD 02E-9		RFGD 03E-9		RFGD 04E-9		RFGD 05E-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

RFGD Standard Range

A) Models with Metric Connections

RFGD10 (orifice 1-6) -40°C to +10°C (Models without MOP*)

Ref.	Valve Body	Capacity Size All Sizes	Connections IN x OUT		Pressure Equal. [mm]	Model Name	Part Number
			Metric	[mm]			
R407C	RFGD 02E	1 -	M10/16	10 x 16	6	RFGD 02E-3.1-57	10205009002
		2 -	M12/22	12 x 22	6	RFGD 02E-4.2-58	10205009102
		3 -	M12/22	12 x 22	6	RFGD 02E-6.3-59	10205009202
		4 -	M12/22	16 x 22	6	RFGD 02E-8.1-60	10205009302
		5 -	M16/22	16 x 22	6	RFGD 02E-9.4-61	10205009402
		6 -	M16/22	16 x 22	6	RFGD 02E-11.7-62	10205009502
R404A / R507	RFGD 03E	1 -	M10/16	10 x 16	6	RFGD 03E-2.0-63	10205009602
		2 -	M12/22	12 x 22	6	RFGD 03E-2.8-64	10205009702
		3 -	M12/22	12 x 22	6	RFGD 03E-4.2-65	10205009802
		4 -	M12/22	16 x 22	6	RFGD 03E-5.4-66	10205009902
		5 -	M16/22	16 x 22	6	RFGD 03E-6.4-67	10205010002
		6 -	M16/22	16 x 22	6	RFGD 03E-7.8-68	10205010102
R134a	RFGD 04E	1 -	M10/16	10 x 16	6	RFGD 04E-1.8-69	10205010202
		2 -	M12/22	12 x 22	6	RFGD 04E-2.5-70	10205010302
		3 -	M12/22	12 x 22	6	RFGD 04E-3.6-71	10205010402
		4 -	M12/22	16 x 22	6	RFGD 04E-4.6-72	10205010502
		5 -	M16/22	16 x 22	6	RFGD 04E-5.5-73	10205010602
		6 -	M16/22	16 x 22	6	RFGD 04E-6.8-74	10205010702
R410A	RFGD 05E	1 -	M10/16	10 x 16	6	RFGD 05E-3.5-75	10205010802
		2 -	M12/22	12 x 22	6	RFGD 05E-4.5-76	10205010902
		3 -	M12/22	12 x 22	6	RFGD 05E-7.0-77	10205011002
		4 -	M12/22	16 x 22	6	RFGD 05E-8.6-78	10205011102
		5 -	M16/22	16 x 22	6	RFGD 05E-10.6-79	10205011202
		6 -	M16/22	16 x 22	6	RFGD 05E-12.8-80	10205011302

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



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

RFGD SERIES

Thermostatic Expansion Valve

RFGD Standard Range

B) Models with Metric 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.	Model Name	Part Number
			Metric	[mm]	[mm]		
R407C	RFGD 02E	7 -	M16/22	16 x 22	6	RFGD02E-12.0-565	10205065202
		7 -	M16/28	16 x 28	6	RFGD02E-12.0-544	10205057502
		8 -	M16/28	16 x 28	6	RFGD02E-15.0-546	10205057702
		8 -	M22/28	22 x 28	6	RFGD02E-15.0-548	10205057902
		9 -	M22/28	22 x 28	6	RFGD02E-18.0-550	10205058102
		9 -	M22/35	22 x 35	6	RFGD02E-18.0-566	10205065302
R404A / R507	RFGD 03E	7 -	M16/22	16 x 22	6	RFGD03E-9.0-563	10205066502
		7 -	M16/28	16 x 28	6	RFGD03E-9.0-534	10205056502
		8 -	M16/28	16 x 28	6	RFGD03E-11.0-536	10205056702
		8 -	M22/28	22 x 28	6	RFGD03E-11.0-538	10205056902
		9 -	M22/28	22 x 28	6	RFGD03E-13.0-540	10205057102
		9 -	M22/35	22 x 35	6	RFGD03E-13.0-564	10205065102
R134a	RFGD 04E	7 -	M16/22	16 x 22	6	RFGD04E-8.0-559	10205066102
		7 -	M16/28	16 x 28	6	RFGD04E-8.0-503	10205054302
		8 -	M16/28	16 x 28	6	RFGD04E-10.0-515	10205054502
		8 -	M22/28	22 x 28	6	RFGD04E-10.0-521	10205054702
		9 -	M22/28	22 x 28	6	RFGD04E-12.0-523	10205054902
		9 -	M22/35	22 x 35	6	RFGD04E-12.0-560	10205066202
R410A	RFGD 05E	7 -	M16/22	16 x 22	6	RFGD05E-15.0-567	10205065402
		7 -	M16/28	16 x 28	6	RFGD05E-15.0-552	10205058502
		8 -	M16/28	16 x 28	6	RFGD05E-19.0-553	10205058702
		8 -	M22/28	22 x 28	6	RFGD05E-19.0-554	10205058902
		9 -	M22/28	22 x 28	6	RFGD05E-23.0-556	10205059102
		9 -	M22/35	22 x 35	6	RFGD05E-23.0-568	10205065502

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

RFGD Standard Range

D) 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.	Model Name	Part Number
				Imperial	[inch]	[inch]		
R407C	2,8	RFGD 02E	1 -	3/5	3/8 x 5/8	1/4	RFGD 02E-3.1-33	10205008402
			2 -	4/7	1/2 x 7/8	1/4	RFGD 02E-4.2-34	10205007002
			3 -	4/7	1/2 x 7/8	1/4	RFGD 02E-6.3-35	10205008502
			4 -	5/7	5/8 x 7/8	1/4	RFGD 02E-8.1-36	10205007802
			5 -	5/7	5/8 x 7/8	1/4	RFGD 02E-9.4-37	10205007902
			6 -	5/7	5/8 x 7/8	1/4	RFGD 02E-11.7-38	10205008002
R404A / R507	3,5	RFGD 03E	1 -	3/5	3/8 x 5/8	1/4	RFGD 03E-2.0-39	10205008102
			2 -	4/7	1/2 x 7/8	1/4	RFGD 03E-2.8-40	10205008202
			3 -	4/7	1/2 x 7/8	1/4	RFGD 03E-4.2-41	10205008302
			4 -	5/7	5/8 x 7/8	1/4	RFGD 03E-5.4-42	10205008602
			5 -	5/7	5/8 x 7/8	1/4	RFGD 03E-6.4-43	10205008702
			6 -	5/7	5/8 x 7/8	1/4	RFGD 03E-7.8-44	10205008802
R134a	2,1	RFGD 04E	1 -	3/5	3/8 x 5/8	1/4	RFGD 04E-1.8-01	10205026702
			2 -	4/7	1/2 x 7/8	1/4	RFGD 04E-2.5-02	10205026702
			3 -	4/7	1/2 x 7/8	1/4	RFGD 04E-3.6-03	10205026902
			4 -	5/7	5/8 x 7/8	1/4	RFGD 04E-4.6-04	10205027002
			5 -	5/7	5/8 x 7/8	1/4	RFGD 04E-5.5-49	10205008902
			6 -	5/7	5/8 x 7/8	1/4	RFGD 04E-6.8-32	10205004402
R410A	4,5	RFGD 05E	1 -	3/5	3/8 x 5/8	1/4	RFGD 05E-3.5-22	10205002502
			2 -	4/7	1/2 x 7/8	1/4	RFGD 05E-4.5-23	10205002702
			3 -	4/7	1/2 x 7/8	1/4	RFGD 05E-7.0-24	10205002802
			4 -	5/7	5/8 x 7/8	1/4	RFGD 05E-8.6-25	10205002902
			5 -	5/7	5/8 x 7/8	1/4	RFGD 05E-10.6-27	10205003102
			6 -	5/7	5/8 x 7/8	1/4	RFGD 05E-12.8-26	10205003002

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

RFGD SERIES

Thermostatic Expansion Valve



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

RFGD STANDARD RANGE

E) 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.	Model Name	Part Number
			Imperial	[inch]	[inch]		
R407C	RFGD 02E	7 -	5/7	5/8 x 7/8	1/4	RFGD02E-12.0-542	10205057302
		7 -	5/9	5/8 x 1-1/8	1/4	RFGD02E-12.0-543	10205057402
		8 -	5/9	5/8 x 1-1/8	1/4	RFGD02E-15.0-545	10205057602
		8 -	7/9	7/8 x 1-1/8	1/4	RFGD02E-15.0-547	10205057802
		9 -	7/9	7/8 x 1-1/8	1/4	RFGD02E-18.0-549	10205058002
		9 -	7/11	7/8 x 1-3/8	1/4	RFGD02E-18.0-551	10205058202
R404A / R507	RFGD 03E	7 -	5/7	5/8 x 7/8	1/4	RFGD03E-9.0-532	10205056302
		7 -	5/9	5/8 x 1-1/8	1/4	RFGD03E-9.0-533	10205056402
		8 -	5/9	5/8 x 1-1/8	1/4	RFGD03E-11.0-535	10205056602
		8 -	7/9	7/8 x 1-1/8	1/4	RFGD03E-11.0-537	10205056802
		9 -	7/9	7/8 x 1-1/8	1/4	RFGD03E-13.0-539	10205057002
		9 -	7/11	7/8 x 1-3/8	1/4	RFGD03E-13.0-541	10205057202
R134a	RFGD 04E	7 -	5/7	5/8 x 7/8	1/4	RFGD04E-8.0-501	10205054102
		7 -	5/9	5/8 x 1-1/8	1/4	RFGD04E-8.0-502	10205054202
		8 -	5/9	5/8 x 1-1/8	1/4	RFGD04E-10.0-504	10205054402
		8 -	7/9	7/8 x 1-1/8	1/4	RFGD04E-10.0-520	10205054602
		9 -	7/9	7/8 x 1-1/8	1/4	RFGD04E-12.0-522	10205054802
		9 -	7/11	7/8 x 1-3/8	1/4	RFGD04E-12.0-524	10205055002
R410A	RFGD 05E	7 -	5/7	5/8 x 7/8	1/4	RFGD05E-15.0-510	10205058302
		7 -	5/9	5/8 x 1-1/8	1/4	RFGD05E-15.0-511	10205058402
		8 -	5/9	5/8 x 1-1/8	1/4	RFGD05E-19.0-512	10205058602
		8 -	7/9	7/8 x 1-1/8	1/4	RFGD05E-19.0-517	10205058802
		9 -	7/9	7/8 x 1-1/8	1/4	RFGD05E-23.0-555	10205059002
		9 -	7/11	7/8 x 1-3/8	1/4	RFGD05E-23.0-557	10205059202

RFGD STANDARD RANGE

G) Models with Flare Connections

RFGD20 -40°C to +10°C without MOP

Ref.	Valve Body	Capacity Size All Sizes	Connections			Model Name	Part Number
			Flare	INxOUTxE	Flare Type		
R134a	RFGD 04E -	7 -	15/6	5/8x3/4x1/4	MIOxMIOxMIO	RFGD04E-8.0-525	10205055102
		8 -	15/6	5/8x3/4x1/4	MIOxMIOxMIO	RFGD04E-10.0-526	10205055202
		8 -	55/6	5/8x3/4x1/4	SAExSAExSAE	RFGD04E-10.0-527	10205055302
		9 -	15/6	5/8x3/4x1/4	MIOxMIOxMIO	RFGD04E-12.0-528	10205055402

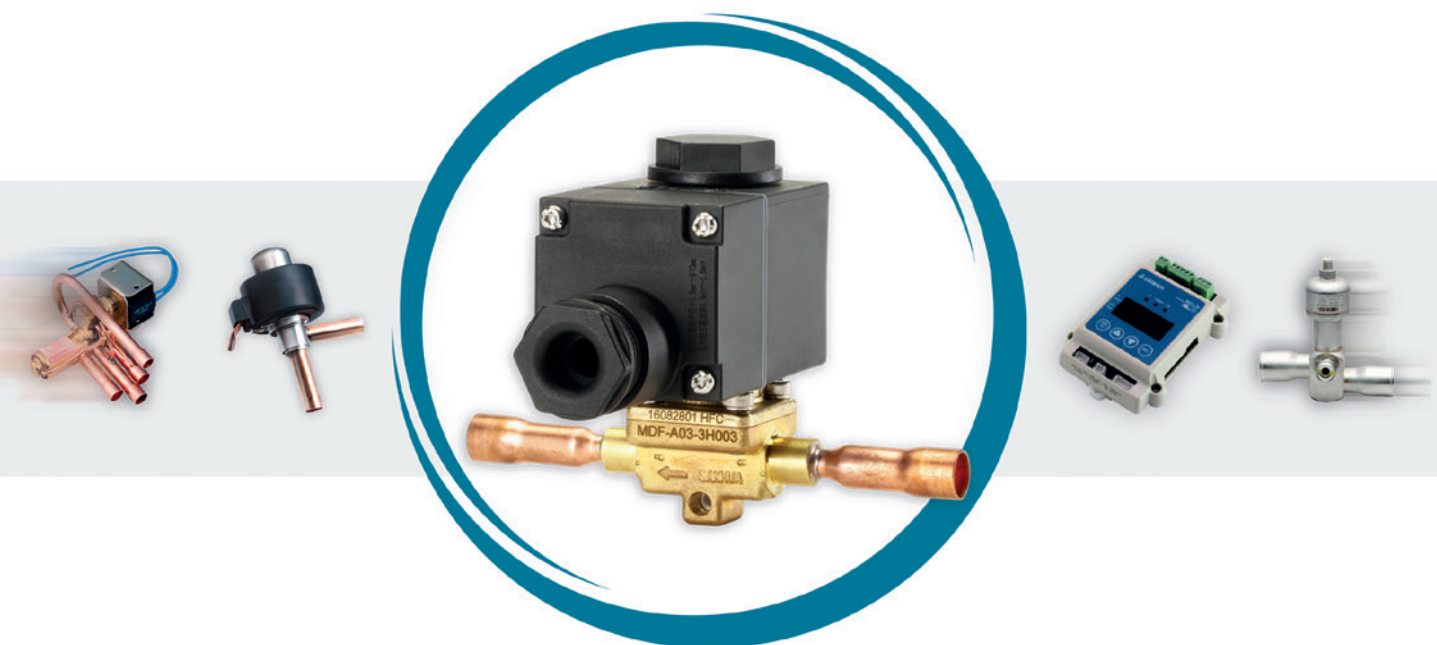
Connections

1) MIO: Inlet = 7/8-14UNF-2A ; Outlet = 17/16-14UNS-2A ; Ext. Equalization port = 7/16-20UNF-2A

2) SAE: Inlet = 7/8-14UNF-2A ; Outlet = 17/16-14UNS-2A ; Ext. Equalization port = 7/16-20UNF-2A



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DPF-TS/S SERIES
Electronic Expansion Valve



REFRIGERANT
R134a, R404A, R407A/F, R407C, R410A, R448A, R449A, R450A, R452A, R513A, R507A, R32, R290, R1234ze(E), R1234yf

LARGE TEMPERATURE SERVICE RANGE
-40°C to +85°C
(duty cycle below 50%)

COIL PROTECTION
IP 67 Insulation Class E



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

TS/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.



COIL

Coil Model	Part Number	Valve Model	Terminal	Weight [kg]	Cable length (mm)
PQ-M10012-001059	10810138802		XHP-5		700
PQ-M10012-001091	10810142402	DPF 1.3-3.2	XHP-5	0.12	1500
PQ-M10012-001002	10810130702		XHP-5		2000
PQ-M03012-001004	10810141302	DPF 4.0-6.5	XHP-5	0.5	2000

Valve Model	Max Cooling Capacity @ 5°C/38°C/0K/0K [kW]										
	R134a	R513A	R407C	R404A R507A	R410A	R452A	R32	R290	R1234yf	R1234ze	
DPF(TS)1.3C-21	4,1	3,5	5,4	3,6	6,1	4,1	9,2	5,5	3	3,3	
DPF(TS)1.65C-36	6,9	5,9	9,2	6,2	10,4	6,9	15,5	9,3	5,1	5,5	
DPF(TS)1.8C-69	8,3	7	10,9	7,4	12,4	8,1	18,4	11	6,1	6,5	
DPF(TS)2.0C-33	10,2	8,7	13,5	9,2	15,3	10,1	22,7	13,7	7,5	8,1	
DPF(TS)2.2C-24	11,0	9,3	14,5	9,9	16,5	10,8	24,4	14,7	8	8,7	
DPF(TS)2.4C-40	12,9	11	17,1	11,6	19,4	12,7	28,7	17,3	9,5	10,2	
DPF(TS)3.0C-29	21,7	18,2	28,6	19,4	32,5	21,1	47,6	28,6	15,7	17	
DPF(TS)3.2C-30	23,7	20	31,3	21,2	35,5	23,2	52,4	31,5	17,3	18,7	
DPF(S03)4.0C-01	39,3	33,3	51,9	35,3	59,0	38,7	87,2	52,4	28,8	31,1	
DPF(S03)4.5C-01	53,0	44,6	70,0	47,6	79,5	51,7	116,6	70,2	38,5	41,6	
DPF(S03)5.5C-01	61,0	51,6	80,6	54,7	91,5	59,9	135	81,2	44,5	48,1	
DPF(S03)6.5C-02	74,5	62,7	98,4	66,9	111,8	72,8	164	98,8	54,2	58,5	

For others running points or others refrigerants, please contact your local support or download our selection software - Quick Finder

LPF SERIES
Electronic Expansion Valve



LPF series Electronic Expansion Valves are especially designed for use in refrigeration systems. Thanks to the soft-sealing seat design, it can be as tight as a solenoid valve once it is completely shut off thus to prevent liquid refrigerant migrate to evaporator or compressor.

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



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

GENERAL CHARACTERISTICS

Condition 1: Tc/Te/Sc/SH: 45°C / -10°C / 1K / 10K
R744: 0°C / -20°C / 1K / 10K

Valve Model	Seat Φ (mm)	Kv (m³/h)	Nominal Cooling Capacity [kW]										Operate pressure [bar]	MOPD Direct [bar]	MOPD Rev. [bar]
			R134a	R404A	R410A	R448A	R449A	R450A	R452A	R513A	R290	R744			
LPF10	1,0	0,04	3.70	3.30	5.60	4.60	4.50	3.20	3.40	3.00	4.90	7.60	42	3,5	≥21
LPF10D													60		
LPF14	1,4	0,08	7.00	6.20	10.70	8.80	8.60	6.10	6.50	5.80	9.30	14.50	42		
LPF14D													60		
LPF18	1,8	0,12	9.60	8.60	14.80	12.30	11.90	8.40	9.00	8.00	12.90	20.00	42		
LPF18D													60		
LPF24	2,4	0,2	13.20	11.70	20.20	16.60	16.30	11.50	12.30	10.90	17.70	27.40	42	≥15	
LPF24D													60		

Condition 2: Tc/Te/Sc/SH: 40°C / -35°C / 1K / 10K
R744: -10°C / -40°C / 1K / 10K

Valve Model	Seat Φ (mm)	Kv (m³/h)	Nominal Cooling Capacity [kW]										Operate pressure [bar]	MOPD Direct [MPa]	MOPD Rev. [MPa]
			R134a	R404A	R410A	R448A	R449A	R450A	R452A	R513A	R290	R744			
LPF10	1,0	0,04	3.50	3.10	5.70	4.50	4.40	3.00	3.20	2.80	4.70	8.80	42	3,5	≥21
LPF10D													60		
LPF14	1,4	0,08	6.60	5.90	10.80	8.50	8.30	5.60	6.10	5.40	9.00	16.70	42		
LPF14D													60		
LPF18	1,8	0,12	9.10	8.20	14.90	11.70	11.50	7.80	8.50	7.40	12.40	23.10	42		
LPF18D													60		
LPF24	2,4	0,2	12.40	11.20	20.40	16.00	15.70	10.60	11.60	10.10	17.00	31.60	42	≥15	
LPF24D													60		

Note: 1) Extent of delivery without coil
2) Nominal capacity is got at 480 fully open pulses of linear flow curve.
3) LPF... is standard series and LPF...D is designed for CO₂

Coil Model	Part Number	Coil Dimensions [mm]	Weight (g)
		D = Cable length	
PQ-M24012-000007	10810127602	1500	140
PQ-M24012-000008	10810129502	3000	
PQ-M24012-000009	10810129602	6000	
PQ-M24012-000010	10810129702	9000	



SEC61X SERIES

Electronic Expansion Valve Controller



Electronic Expansion Valve Controller SEC61X series is the controller for the refrigeration applications, A/C and HP applications with dvanced PID algorithm to ensure accurate automatic adjustment of superheat.

APPLICABLE FOR VARIOUS REFRIGERANTS

OPERATING TEMPERATURE: -25~60°C

STORAGE TEMPERATURE: -30~60°C

INSTALLATION METHOD: DIN rail snap-in or wall mounting with screws

CERTIFICATION: CE Declaration according to EMC

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

NO.	Item	Model	Part Number	Details		
				Item	Qty.	
1	Controller Package ¹⁾	SEC611-R4	10680001002	Voltage pressure sensor	*C/Bar+2m Temp. Sensor	1
		SEC613-R4	Coming soon		*F/Psi+2m Temp. Sensor	1
		SEC612-R4	10680001102	Current pressure sensor	*C/Bar+2m Temp. Sensor	1
		SEC614-R4	Coming soon		*F/Psi+2m Temp. Sensor	1
2	Temp. Sensor ²⁾	NTC2A1	10665000102	2m Temp. Sensor		
3		NTC5A1	10665000202	5m Temp. Sensor		
4		NTC9A1	10665000402	9m Temp. Sensor		
6	Pressure Sensor ³⁾	YCQB02H01-1	10185001502	Ratio with Solder connection, 2m cable length		
7		YCQB02L12-1	10185015502	Ratio with Thread connection, 2m cable length		
8		YCQB02H18-1	10185015402	Ratio with Solder connection, 4.9m cable length		
9		YCQB02L28-1	10185015602	Ratio with Thread connection, 4.9m cable length		
10		YCQC02L18	10185017102	Current with Thread connection, Packard connection		
11	Packard cable	YCQB02-013054	20185016702	For YCQC02L18with 6m cable length		
		YCQB02-013055	20185016802	For YCQC02L18with 9m cable length		

- Notes: 1) The controller packages already contain 2m temperature sensor.
2) The temperature sensor can be ordered separately.
3) The pressure sensor is not included in the packages and should be ordered separately.



VPF SERIES

Electronic Expansion Valve



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.

REFRIGERANT

R134a, R404A, R407A, R407C, R407F, R410A, R507A ...

COOLING CAPACITY:

54 to 1495 kW (R134a nominal capacity)

UP TO 3800 STEPS (FULL STROKE):

Valve starts opening with 110 steps (VPF25) and 165 steps (VPF50...400)

MEDIUM TEMPERATURE

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

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

TECHNICAL PARAMETER

Model	Part Number ¹⁾	Valve Shape	Sight Glass	Connections od ODF		Seat ²⁾ ø	Kv ³⁾	MWP PS	MOPD Direct A->B	MOPD Rev. B->A
				Inlet A	Outlet B					
				[inch]	[mm]					
VPF12.5H52	10130349502	straight	-	5/8 x 5/8	16 x 16	7,5	0,8			
VPF12.5H53	10130350202			7/8 x 7/8	22 x 22					
VPF12.5H58	10130342102			5/8 x 5/8	16 x 16					
VPF12.5H59	10130349802	L-shape	-	7/8 x 7/8	22 x 22					
VPF25H52	10130349202	straight	-	5/8 x 5/8	16 x 16	7,5	1,4			
VPF25H53	10130356202			7/8 x 7/8	22 x 22					
VPF25H58	10130343202			5/8 x 5/8	16 x 16					
VPF25H59	10130356102	L-shape	-	7/8 x 7/8	22 x 22					
VPF50H51	10130337702	straight	-	7/8 x 7/8	22 x 22	11,4	2,3	5,0	3,9	3,9
VPF50H52	10130347002			7/8 x 11/8	-					
VPF50H53	10130356502			11/8 x 11/8	-					
VPF50H54	10130342302			11/8 x 13/8	-					
VPF50H56	10130347102			-	22 x 28					
VPF50H57	10130347202			-	28 x 28					
VPF50H58	10130342402			-	28 x 35					
VPF 50H01	10130341102			7/8 x 7/8	22 x 22					
VPF 50H02	10130346702			7/8 x 11/8	-					
VPF 50H03	10130344802			11/8 x 11/8	-					
VPF50H04	10130342802			11/8 x 13/8	-					
VPF50H06	10130346802			-	22 x 28					
VPF50H07	10130346902	-	28 x 28							
VPF50H08	10130342502	-	28 x 35							
VPF100H51	10130347502	straight	-	11/8 x 11/8	-	14,4	4,0			
VPF100H52	10130347602			11/8 x 13/8	-					
VPF100H53	10130342602			13/8 x 13/8	35 x 35					
VPF100H54	10130347702			-	28 x 28					
VPF100H55	10130347802			-	28 x 35					
VPF100H01	10130356802			11/8 x 11/8	-					
VPF100H02	10130347302	11/8 x 13/8	-							
VPF100H03	10130356602	straight	with sight glass	13/8 x 13/8	35 x 35					
VPF100H05	10130347402			-	28 x 35					
VPF100H06	10130343102			-	28 x 28					
VPF150H01	10130357002			L-shape	with sight glass					
VPF150H02	10130356702	15/8 x 15/8	-							
VPF250H01	10130348002	straight	with sight glass	11/8 x 11/8	-	25	11,9	4,5	3,5	3,5
VPF250H02	10130342902			13/8 x 13/8	35 x 35					
VPF250H03	10130356402			15/8 x 15/8	-					
VPF250H04	10130348102			-	28 x 28					
VPF250H05	10130341202			-	-					
VPF400H01	10130344902	straight	with sight glass	15/8 x 15/8	-	33	17,0			
VPF400H02	10130349002			-	42 x 42					
VPF400H03	10130343302			21/8 x 21/8	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 Completely Open	Nominal Cooling Capacity [kW]						
		R134a	R407A	R407C	R407F	R404A/R507A	R410A	R1234ze
VPF12.5	2600	54	67	71	76	50	82	43
VPF25	2600	116	144	152	162	108	176	92
VPF50	2600	221	275	290	310	206	336	175
VPF100	3500	319	397	418	447	297	484	253
VPF150	3800	574	714	752	804	534	871	455
VPF250	3800	892	1108	1168	1249	830	1353	706
VPF400	3800	1495	1857	1958	2094	1392	2269	1183



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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, R507A[®] 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

Model Valve Body	Coil voltage	Kv [m ³ /h]	SAE Flare Connection [inch]	Part Number [®]	Solder Connection ODF	Part Number [®]	Solder Connection ODF	Part Number [®]
					[inch]		[mm]	
MDF-A03-2	AC/DC	0,16	1/4	1012500102	1/4	10125011202	6	10125006502
MDF-A03-3	AC/DC	0,23	1/4	10125009202	1/4	10125011902	6	10125003802
MDF-A03-3	AC/DC	0,23	3/8	10125004402	3/8	10125003602	10	10125003402
MDF-A03-6	AC	0,8	3/8	10125009302	3/8	10125011402	10	10125004102
MDF-D03-6	DC	0,8	3/8	10125018002	3/8	10125017402	10	10125016802
MDF-A03-6	AC	0,8	1/2	10125004502	1/2	10125004202	12	10125006702
MDF-D03-6	DC	0,8	1/2	10125017802	1/2	10125017502	12	10125018202
MDF-A03-10	AC	1,9	1/2	10125005402	1/2	10125011502	12	10125003502
MDF-D03-10	DC	1,9	1/2	10125018902	1/2	10125017202	12	10125017002
MDF-A03-10	AC	1,9	5/8	10125009402	5/8	10125006302	16	10125006302
MDF-D03-10	DC	1,9	5/8	10125018702	5/8	10125018402	16	10125018402
MDF-A03-15	AC	2,3	5/8	10125009502	5/8	10125003702	16	10125003702
MDF-D03-15	DC	2,3	5/8	10125019302	5/8	10125017102	16	10125017102
MDF-A03-15	AC	2,3	7/8	10125004802	7/8	10125005502	22	10125005502
MDF-D03-15	DC	2,3	7/8	10125019502	7/8	10125019002	22	10125019002
MDF-A03-20	AC/DC	5,0			7/8	10125011702	22	10125011702
MDF-A03-22	AC/DC	5,9			7/8	10125011802	22	10125011802
MDF-A03-20	AC/DC	5,0			1-1/8	10125005602	28	10125005702
MDF-A03-22	AC/DC	5,9			1-1/8	10125006202	28	10125000302
MDF-B03-25	AC/DC	10,0			1-1/8	10125006902	28	10125007002
MDF-A03-22	AC/DC	5,9			1-3/8	10125005102	35	10125005102
MDF-B03-25	AC/DC	10,0			1-3/8	10125006802	35	10125006802
MDF-B03-32	AC/DC	15			1-3/8	10125009102	35	10125009102
MDF-B03-32	AC/DC	15			1-5/8	10125007502	42	10125007102
MDF-B03-40	AC/DC	25			1-5/8	10125004302	42	10125007602
MDF-B03-40	AC/DC	25			2-1/8	10125007702	54	10125007702

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



TECHNICAL PARAMETERS OF VALVE BODY

Valve Body		Usable Coils	Normal position	Actuation	Kv [m ³ /h]	MOP [MPa]	Max. OPD [MPa]		Min. OPD ⁷⁾ [MPa]			
Solder	Flare						AC ⁴⁾ coil	DC ⁵⁾ coil				
MDF-A03-2H	MDF-A03-2L	AC + DC		Direct	0,16		3,1	3,1	0,00			
MDF-A03-3H	MDF-A03-3L				0,23							
MDF-A03-6H	MDF-A03-6L	AC	NC ¹⁾	Pilot ²⁾	0,8	4,5	NP	2,8	0,005			
MDF-D03-6H	MDF-D03-6H	DC			1,9					3,1	NR	
MDF-A03-10H	MDF-A03-10L	AC			2,3					NP	2,8	
MDF-D03-10H	MDF-D03-10H	DC										3,1
MDF-A03-15H	MDF-A03-15L	AC			5,0					NP	2,8	
MDF-D03-15H	MDF-D03-15L	DC										3,1
MDF-A03-20H		AC + DC			5,9					3,1	3,1	0,007
MDF-A03-22H					10,0							
MDF-B03-25H					15,0							
MDF-B03-32H					25,0							
MDF-B03-40H								0,02				

- 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. evaporation temp. / max. condensing temp. -15°C/+58°C, select MDF-D03 model
6) Pressure values valid for 24V DC coil. Values for 12V DC coils on request
7) Min. OPD: values referred to 60% of nominal flow

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	10,5W (50Hz)	-15% +10%	F	IP67	NO
MQ-A03024-000018	10820013702				8,5W (60Hz)				
MQ-A0311A-000001	10820010102			110 to 120	12W (50Hz)				
MQ-A0311A-000005	10820010165				10W (60Hz)				
MQ-A0322G-000001 ⁴⁾	10820010002	Quick Install Plug ³⁾	AC	220 to 240	12 (50Hz)	IP67	NO		
MQ-A0322G-000024	10820015002				10 (60Hz)				
MQ-A11024-000001	10820009402			24	9,5 (50Hz)			8,5 (60Hz)	OR ⁵⁾
MQ-A1111A-000001	10820009202	110 to 120	11,5 (50Hz)	10,0 (60Hz)	IP67	OR			
MQ-A1122G-000001	10820009002		220 to 240	11 (50Hz)			9,5 (60Hz)		
MQ-D03012-000002	10820001302	DIN Plug	DC	12				IP67	NO
MQ-D03024-000002	10820001002			24	15	±10%			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 to 9,7mm and cable core 0,75 to 2,5mm²
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



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

LDF SERIES Solenoid Valve



LDF 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/C/F, R410A, R507A, R448A, R449A, R450A, R452A, R513A, R32¹⁾, R1234yf, R1234ze, R454A/B/C, R455A, R290, R1270, R600a

MEDIUM TEMPERATURE TS
MIN./MAX.: -30°C/+120°C

MAX. OPERATING PRESSURE PS: 4.5Mpa

TECHNICAL PARAMETERS OF VALVE BODY

Model Valve Body	Part Number	Normal Position	Actuation	Ø Seat	Kv	MOP	OPD [MPa]		Ød ODM
				[mm]	(m³/h)	[MPa]	Max	Min	[inch]
LDF2A01	10127000102	NC	Direct	2	0.12	4.5	3.1	0	1/4
LDF2A02	10127000402			2	0.12	4.5	3.1	0	1/4
LDF3A08	10127001802			3	0.26	4.5	3.1	0.005	1/4
LDF4A08	10127001102		4	0.3	4.5	3.1	0.005	1/4	
LDF6A08	10127001202		5.8	0.6	4.5	3.1	0.005	5/16	
LDF8A01	10127000502		8	0.9	4.5	3.1	0.005	3/8	
LDF8A02	10127000602	8	1.1	4.5	3.1	0.005	3/8		

TECHNICAL PARAMETERS OF COIL

Model Coil	Rated Voltage [V]	Power [W]	Voltage Tolerance	Insulation Class	Wiring type	Part Number
FQ-A05 024-000709	AC 24	5W (50Hz) 4.5W (60Hz)	+10% -15%	B	Lead Wires	10800072302
FQ-A05 120-001098	AC 120	5W (50Hz) 4.5W (60Hz)				10800062002
FQ-A05 22G-001044	AC 220-240	5W (50Hz) 4.5W (60Hz)				10800058002



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

FDN/N/C SERIES Solenoid Valve



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.

REFRIGERANT

R134a, R407C, R404A, R410A, R507A, R407A/F, R448A/R449A, R452A, R450A/R513A, R290

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

PS
45 bar

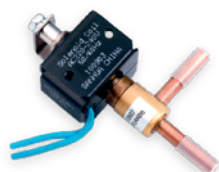
TECHNICAL PARAMETERS OF VALVE BODY

Model Valve Body	Part Number	Normal Position	Actuation	FDF (N/F)						
				Ø Seat	Kv	MOP	Max. OPD	Min. OPD	Ød OD	Ød OD
				[mm]	(m³/h)	[Bar]	[Bar]	[Bar]	[mm]	[Po]
FDF 2A 94	10120019802	NC	Direct	1,9	0,08	45	3,4	0	6,35	1/4
FDF 2.5A 08	10120021102			2,5	0,21		2,1	0,01	6,35	1/4
FDF 3A 08	10120019302			2,7	0,26		3,4	0	7,94	5/16
FDF 4A 10	10120006502		4	0,30	3,4		0,01	6,35	1/4	
FDF 6A 58	10120018702		5,8	0,56	3,4		0,01	7,94	5/16	
FDF 11A 16	10120020302		11	2,40	2,8		0,02	12,7	1/2	
FDF 13A 12	10120020502	13	3,5	15,88	5/8					

TECHNICAL PARAMETERS OF COIL

Model Coil	Part Number	Rated Voltage [V]	Supply	Power [W]	Freq. [Hz]	Voltage Tolerance	Insulation Class	Wiring type
FQ-A05 024-000709	10800072302	24	AC	5W (50Hz) 4.5W (60Hz)	50/60	-15% +10%	B	flying leads
FQ-A05 120-001098	10800062002	110 to 120		5W (50Hz) 4.5W (60Hz)				flying leads
FQ-A05 22G-001022	10800057302	220 to 240		5W (50Hz) 4.5W (60Hz)				flying leads

FDN/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.

TECHNICAL PARAMETERS OF VALVE BODY

Valve Body Model	Part Number	Normal Position	Actuation	FDF (N/O)						
				Ø Seat	Kv	MOP	Max. OPD	Min. OPD	Ød OD	Ød OD
				[mm]	(m³/h)	[MPa]	[MPa]	[MPa]	[mm]	[inch]
FDF2AK01	10120006702	NO	Direct	1,8	0,05	45	15	0	6,35 ±0,1	1/4
FDF2AK08	10120009702			1,9	0,08					

TECHNICAL PARAMETERS OF COIL

Coil Model	Part Number	Rated Voltage [V]	Supply	Power ¹⁾ [W]	Used for	Freq. [Hz]	Voltage Tolerance	Insulation Class	Wiring type
FQ-A05024-000709	10800072302	24	AC	5W (50Hz) 4.5W (60Hz)	FDF 2AK 01	50/60	-15% +10%	B	1,8
FQ-A05120-001098	10800062002	110 to 120		5 (50Hz) 4.5 (60Hz)					0,8
FQ-A0522G-001022	10800057302	220 to 240		5W (50Hz) 4.5W (60Hz)					0,6
FQ-A0522G-001066	10800060102	220 to 240		6,5 (50Hz) 5 (60Hz)					2

CE RoHS UL TÜV

Note: 1) Power consumption based on 220V



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

HDF SERIES Solenoid Valve

REFRIGERANT
R134a, R407C, R404A,
R410A, R507C

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

CERTIFICATIONS:
Declaration according
to LVD and PED

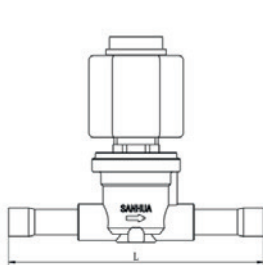


HDF series solenoid valves are piston type pilot operated solenoid valves, mainly used in refrigerant control of various devices such as refrigerating and freezing systems, air conditioners and heat pumps. The maximum admitted refrigerant temperature (equal to +140°C) permits to install HDF valves in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

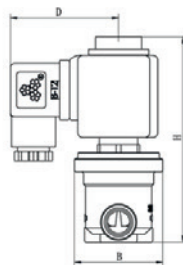
DIMENSIONS

Model Valve body	Part Number ¹⁾	Solder Connection (ODF)		Kv [m ³ /h]	PED Category Group 2	Dimensions [mm]			
		[inch]	[mm]			L	B	D	H
HDF3H01	10129000302	1/4"	-	0,3	Art. 4.3	118	33	54	95
HDF3H03	10129000502	-	6	0,3	Art. 4.3	118	33	54	95
HDF3H02	10129000402	3/8"	-	0,3	Art. 4.3	118	33	54	95
HDF3H05	10129000602	-	10	0,3	Art. 4.3	118	33	54	95
HDF6H02	10129000102	3/8"	-	0,8	Art. 4.3	118	33	54	95
HDF6H04	10129000802	-	10	0,8	Art. 4.3	118	33	54	95
HDF6H03	10129000702	1/2"	-	0,8	Art. 4.3	127	33	54	95
HDF6H07	10129000202	-	12	0,8	Art. 4.3	127	33	54	95
HDF10H01	101290003402	1/2"	-	1,9	Art. 4.3	127	44	54	102
HDF10H03	10129000902	-	12	1,9	Art. 4.3	127	44	54	102
HDF10H02	101290001702	5/8"	16	1,9	Art. 4.3	166	44	54	102
HDF15H01	101290003502	5/8"	16	2,6	Art. 4.3	175	48	54	105
HDF15H02	101290001002	7/8"	22	2,6	Art. 4.3	175	48	54	105
HDF20H01	101290001102	7/8"	22	4,0	Art. 4.3	181	57	54	114
HDF20H02	101290001202	1 1/8"	-	4,0	Art. 4.3	214	57	54	114
HDF20H03	101290001302	-	28	4,0	Art. 4.3	214	57	54	114
HDF22H01	101290003602	7/8"	22	5,7	Art. 4.3	190	58	54	114
HDF22H03	101290001502	1 1/8"	-	5,7	Art. 4.3	214	58	54	114
HDF22H04	101290001602	-	28	5,7	Art. 4.3	214	58	54	114
HDF22H02	101290001402	1 3/8"	35	5,7	I	281	58	54	114

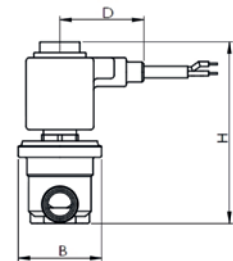
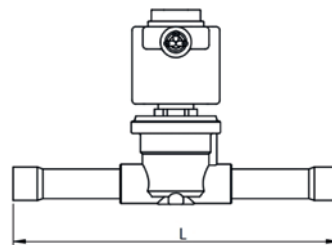
Note: 1) Extent of delivery: valve body without coil



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



Valve Body Solder Connection – with a Lead wires coil



TECHNICAL PARAMETERS OF COIL

Standard coils with DIN connector (MQ-A03)

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

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

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

4 WAY REVERSING VALVE

1KW
420KW



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

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



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

YQCB 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°



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

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

GENERAL CHARACTERISTICS

Model Name	Part Number	Mechanical connection			Electrical connection	Cable Length [mm]	Pressure Range (0 to pr) [Bar]	Output (VA0 to VApr) [V]	Maximum Accuracy
		Type	Pipe Size [inch]	Thread size					
YQCB02H01	10185004702	Solder	1/4"	-	Lead Wires	2000	0 to 20	0,5 bis 3,5 DC	± 2,0 % F.S.
YQCB05H01	10185004802	Solder	1/4"	-	Lead Wires	2000	0 to 50	0,5 bis 3,5 DC	± 2,0 % F.S.
YQCB02L01	10185004902	Thread	SAE - 1/4"	7/16-20UNF	Lead Wires	2000	0 to 20	0,5 bis 4,5 DC	± 2,0 % F.S.
YQCB05L01	10185007002	Thread	SAE - 1/4"	7/16-20UNF	Lead Wires	2000	0 to 46	0,5 bis 4,5 DC	± 2,0 % F.S.
YQCB02H01-01	10185001502	Solder	1/4"	-	Lead Wires	2000	0 to 20	0,5 bis 3,5 DC	± 0,8 % F.S.
YQCB02H18-1	10185015402	Solder	1/4"	-	Lead Wires	4900	0 to 20	0,5 bis 3,5 DC	± 0,8 % F.S.
YQCB02L1-01	10185001402	Thread	SAE - 1/4"	7/16-20UNF	Lead Wires	2000	0 to 20	0,5 bis 4,5 DC	± 0,8 % F.S.
YQCB02L12-1	10185015502	Thread	SAE - 1/4"	7/16-20UNF	Lead Wires	2000	0 to 20	0,5 bis 3,5 DC	± 0,8 % F.S.
YQCB02L28-1	10185015602	Thread	SAE - 1/4"	7/16-20UNF	Lead Wires	4900	0 to 20	0,5 bis 3,5 DC	± 0,8 % F.S.
YQCB02H50	10185004502	Solder	1/4"	-	Packard	-	0 to 13,8	0,5 bis 4,5 DC	± 2,0 % F.S.
YQCB04H50	10185004602	Solder	1/4"	-	Packard	-	0 to 34,5	0,5 bis 4,5 DC	± 2,0 % F.S.
YQCB01L50	10185015702	Thread	SAE - 1/4"	7/16-20UNF	Packard	-	0 to 9,3	0,5 bis 4,5 DC	± 2,0 % F.S.
YQCB02L50	10185004002	Thread	SAE - 1/4"	7/16-20UNF	Packard	-	0 to 13,8	0,5 bis 4,5 DC	± 1,0 % F.S.
YQCB02L51	10185004102	Thread	SAE - 1/4"	7/16-20UNF	Packard	-	0 to 17,2	0,5 bis 4,5 DC	± 1,0 % F.S.
YQCB04L50	10185004202	Thread	SAE - 1/4"	7/16-20UNF	Packard	-	0 to 34,5	0,5 bis 4,5 DC	± 1,0 % F.S.
YQCB05L50	10185004302	Thread	SAE - 1/4"	7/16-20UNF	Packard	-	0 to 46	0,5 bis 4,5 DC	± 1,0 % F.S.
YQCB05L53	10185013402	Thread	SAE - 1/4"	7/16-20UNF	Packard	-	0 to 45	0,5 bis 4,5 DC	± 2,0 % F.S.
YQCB02L100	10185009102	Thread	SAE - 1/4"	7/16-20UNF	Molex	-	0 to 20	0,5 bis 4,5 DC	± 2,0 % F.S.
YQCB05L100	10185009201	Thread	SAE - 1/4"	7/16-20UNF	Molex	-	0 to 46	0,5 bis 4,5 DC	± 1,0 % F.S.

Note:

- Signal span: $V_{FS}=FS$ (Full Scale) = $V_A(p) - V_{A0}$
- Accuracy measured within the temperature ranges:
 - YQCB02xxx: from -30°C to +85°C
 - YQCB05xxx: from -30°C to +120°C
 Included Nonlinearity (L) and pressure hysteresis. The Nonlinearity is the deviation of the real sensor characteristic $V_A = f(p)$ from the ideal straight line. It can be approximated by a polynomial of second order, with the maximum at $p_x = p_r / 2$. The equation to calculate the nonlinearity is: $L = (V_A(p_x) - V_{A0}) / (V_A(p_r) - V_{A0}) - p_x / p_r$
- Response Time: delay between a pressure change (10 to 90% p_r) and the corresponding signal output change (10 to 90% FS)
- Insulation Resistance measured with rated voltage: 500 V DC

YQQC SERIES



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

GENERAL CHARACTERISTICS

Model Name	Part Number	Mechanical connection			Electrical connection	Pressure Range (0 to pr) [Mpa]	Maximum Accuracy
		Type	Pipe Size [inch]	Thread size			
YQQC02L04	10185009902	Thread	G3/8A	-	Hirschmann	-0,1 bis 1,2	± 0,5 % F.S.
YQQC02L05	10185009802	Thread	G3/8A	-	Hirschmann	-0,1 bis 2,0	± 0,5 % F.S.
YQQC03L04	10185011002	Thread	SAE - 1/4"	7/16-20UNF-2B	Hirschmann	0 bis 3,0	± 0,5 % F.S.
YQQC03L05	10185009302	Thread	SAE - 1/4"	7/16-20UNF-2B	Packard	0 bis 3,0	± 0,5 % F.S.
YQQC03L06	10185009402	Thread	SAE - 1/4"	7/16-20UNF-2A	Packard	0 bis 3,0	± 0,5 % F.S.
YQQC01L13 ³⁾	10185015202	Thread	SAE - 1/4"	7/16-20UNF-2B	Packard	-0,05 bis 0,7	± 0,8 % F.S.
YQQC03L11 ³⁾	10185014402	Thread	SAE - 1/4"	7/16-20UNF-2B	Packard	0 bis 3,0	± 0,8 % F.S.
YQQC05L09 ³⁾	10185015302	Thread	SAE - 1/4"	7/16-20UNF-2B	Packard	0 bis 4,48	± 0,8 % F.S.

- Note:**
- Signal span: $V_{FS}=FS$ (Full Scale) = $V_A(p) - V_{A0}$
 - Insulation Resistance measured with rated voltage: 500 V DC
 - Models especially designed for distribution market



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

PS01/50/15 SERIES Pressure switch

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: 3.5MPa;
LP: 1.65MPa

ENCLOSURE:
IP44

CERTIFICATION:
CE, PED IV
and UL Listed



Pressure switches can be used in refrigeration and air conditioning systems to protect the systems from extremely low suction pressure or extremely high discharge pressure. The pressure switches are also used to start or stop the refrigeration compressors and air-cooled condenser fans, to regulate other components in the systems which require pressure control function.

SELECTION AND ORDERING

PS01, PS50, PS15, Flare Connection & Solder ODF Connection

Pressure	Type	Low Pressure (LP)		High Pressure (HP)		Reset		PED 2014 68/EU EN 12263 Certified ¹⁾	Ordering Code							
		Range	Differential Pressure ΔP	Range	Differential Pressure ΔP				Flare Connection 7/16-20UNF (1/4in. & 6mm)		Solder ODF 1/4 in.		Solder ODF 6mm		Capillary with 7/16-20UNF Flare Nut (1/4in. & 6mm)	
		[bar]	[bar]	[bar]	[bar]				Model	Part Number	Model	Part Number	Model	Part Number	Model	Part Number
Low	PS01 ²⁾	-0.5-7	0.5-5	-	-	Auto	-	YES	PS01AL-S01	10660003102	PS01AH-S01	10660003702	PS01AH-S02	10660005302	PS01AM-S01	10660006102
Low	PS01	-0.5-7	0.5	-	-	Manual	-	YES	PS01ML-S01	10660003202	PS01MH-S01	10660003802	PS01MH-S02	10660005202	PS01MM-S01	10660006002
High	PS50	-	-	6-32	3-15	-	Auto	NO	PS50AL-S51	10660002702	PS50AH-S51	10660003902	PS50AH-S52	10660005102	PS50AM-S51	10660005902
High	PS50	-	-	6-32	4	-	Manual	NO	PS50ML-S51	10660003302	PS50MH-S51	10660004002	PS50MH-S52	10660005002	PS50MM-S51	10660005802
High	PS50	-	-	6-32	3-15	-	Auto	YES	PS50AL-S01	10660003002	PS50AH-S01	10660004102	PS50AH-S02	10660004902	PS50AM-S01	10660005702
High	PS50	-	-	6-32	4	-	Manual	YES	PS50ML-S01	10660003402	PS50MH-S01	10660004602	PS50MH-S02	10660004802	PS50MM-S01	10660006602
Dual	PS15	-0.5-7	0.5-5	6-32	3-15	Auto	Auto	NO	PS15AAL-S51	10660002802	PS15AAH-S51	10660004502	PS15AAH-S52	10660006702	PS15AAM-S51	10660006502
Dual	PS15	-0.5-7	0.5-5	6-32	4	Auto	Manual	NO	PS15AML-S51	10660003502	PS15AMH-S51	10660004402	PS15AMH-S52	10660004702	PS15AMM-S51	10660006402
Dual	PS15	-0.5-7	0.5-5	6-32	3-15	Auto	Auto	YES	PS15AAL-S01	10660002902	PS15AAH-S01	10660004302	PS15AAH-S02	10660005402	PS15AAM-S01	10660006302
Dual	PS15	-0.5-7	0.5-5	6-32	4	Auto	Manual	YES	PS15AML-S01	10660003602	PS15AMH-S01	10660004202	PS15AMH-S02	10660005602	PS15AMM-S01	10660006202

Notes: 1) PS50 and PS15 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 (models without PED 2014 68/EU Certificate can be used as pressure regulation devices, usage them as pressure safety devices must be verified as per local legislation in the country of use). Regarding availability of PED 2014 68/EU (Category IV) Certificate please contact your Sanhua sales representative. The double bellows system prevents loss of charge in the event of the inner bellows rupture. A rupture in the inner bellows 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.

2) The PS01 are certified by TÜV, Rheinland acc. to PED 2014 68/EU, EN12263 but due to the fact that they will not be used as high pressure protection function, PED IV is not required and they are designed with only single bellows.



Quick Finder

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

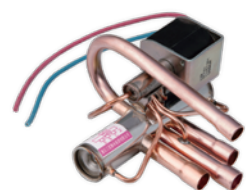
SHF SERIES 4 Way Reversing Valve

REFRIGERANT
R134a, R404A,
R407C, R410A, R507A

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

OPD MAX
40 bar

PS
45 bar



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

CAPACITY SELECTION TABLE

Valve Model	Nominal Cooling Capacity (condition 2)							
	R407C		R410A		R134a		R404A/R507A	
	ΔP: 0.1 bar	ΔP: 0.2 bar	ΔP: 0.1 bar	ΔP: 0.2 bar	ΔP: 0.1 bar	ΔP: 0.2 bar	ΔP: 0.1 bar	ΔP: 0.2 bar
	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]	[kW]
SHF(L)-3H	3,0	4,3	3,6	5,0	2,4	3,4	2,4	3,4
SHF(L)-4H	3,2	4,6	3,8	5,4	2,6	3,7	2,6	3,7
SHF(L)-7H	5,9	8,3	6,9	9,7	4,7	6,6	4,7	6,6
SHF(L)-11H	9,1	12,9	10,7	15,1	7,3	10,3	7,3	10,3
SHF-14A-46	13,4	18,9	15,7	22,2	10,7	15,1	10,7	15,1
SHF-20D-46	19,3	27,3	22,5	31,9	15,4	21,7	15,4	21,7
SHF-20D-xx	20,1	28,4	23,5	33,2	16,0	22,7	16,0	22,6
SHF-35B	29,8	42,2	34,9	49,3	23,8	33,7	23,8	33,6
SHF-50A-79	37,1	52,5	43,4	61,4	29,6	41,9	29,6	41,8
SHF(L)-70	57,8	81,8	67,6	95,7	46,1	65,2	46,1	65,2
SHF(L)-100	82,2	116,2	96,1	136,0	65,6	92,7	65,5	92,6
SHF(L)-140	118,5	167,5	138,6	196,0	94,5	133,7	94,4	133,5
SHF(L)-175	143,0	202,2	167,3	236,7	114,1	161,4	114,0	161,2
SHF(L)-210	171,2	242,1	200,3	283,3	136,6	193,2	136,5	193,0
SHF(L)-350	280,7	397,0	328,5	464,6	224,1	316,9	223,8	316,4
SHF(L)-420	359,0	507,8	420,1	594,2	286,5	405,2	286,2	404,7

COIL

Coil Model ¹⁾	Winding Code	Part Number	Electrical Function / Connection Type	Cable Length [mm]	Power Supply [V]	Rated Voltage [V]	Power Consumption			Protection Class [-]	Insulat. Class [-]	Max. Op. Temp. [°C]			
							AC 50Hz	AC 60Hz	DC						
							[W]	[W]	[W]						
SQ-A25 22G-00 0001	SHF-4-10L3	10805029102	Lead Wires	500	AC	220-240	4,5	3,5	-	IP54	B ²⁾	130			
SQ-A25 200-00 0001	SHF-4-10L2	10805027002	Lead Wires	500	AC	200	4,5	3,5	-						
SQ-A25 100-00 0001	SHF-4-10L1	10805023602	Lead Wires	500	AC	100	4,5	3,5	-						
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	-						
SQ-A25 26H-00 0001	SHF-4-10L6	10805231902	Lead Wires	500	AC	265-277	4,5	3,5	-						
SQ-A25 22G-00 0870	SHF-4-10L3	10805240702	Lead Wires	1500	AC	220-240	4,5	3,5	-						
SQ-A25 11A-00 0840	SHF-4-10L4	10805240802	Lead Wires	1500	AC	110-120	4,5	3,5	-						
SQ-A25 024-00 0161	SHF-4-10L5	10805023002	Lead Wires	1500	AC	24	4,5	3,5	-						
SQ-A47 22G-00 0001	SHF-4-10FA5	10805263402	Spade (Faston) ³⁾	-	AC	220-240	6	5	-				IP00	F ²⁾	155
SQ-A47 220-00 0001	SHF-4-10FA1	10805273402	Spade (Faston) ³⁾	-	AC	220	6	5	-						
SQ-A47 11B-00 0001	SHF-4-10FA2	10805273302	Spade (Faston) ³⁾	-	AC	120	6	5	-						
SQ-A47 10A-00 0001	SHF-4-10FA3	10805268702	Spade (Faston) ³⁾	-	AC	100-110	6	5	-						
SQ-A47 024-00 0001	SHF-4-10FA4	10805263302	Spade (Faston) ³⁾	-	AC	24	6	5	-						
SQ-A47 26H-00 0001	SHF-4-10FA6	10805273502	Spade (Faston) ³⁾	-	AC	265-277	6	5	-						
SQ-D44 012-00 0001	SHF-4-10FA8	10805231802	Spade (Faston) ³⁾	-	DC	12	-	-	10						
SQ-D44 024-00 0001	SHF-4-10FA9	10805070102	Spade (Faston) ³⁾	-	DC	24	-	-	11						
SQ-A27 100-00 0001	-	10805063202	Bi-stable/Lead W.	500	AC	100	18	18	-	IP54	B ²⁾	130			
SQ-A27 200-00 0001	-	10805063802	Bi-stable/Lead W.	500	AC	200	18	18	-						
SQ-A27 20K-00 0001	-	10805229202	Bi-stable/Lead W.	500	AC	220-240	18	18	-						
SQ-D27 012-00 0001	-	10805069302	Bi-stable/Lead W.	500	DC	12	-	-	20						

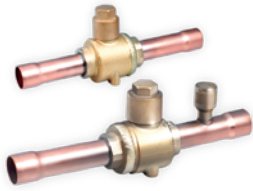
- Note:** 1) Every coil is applicable to all above specified valve models
2) Max ambient temperature up to + 50°C
3) Wire Harness for coil with Faston connector available as accessory

Nominal operating conditions	Condition 2
Condensing Temperature t _c	54°C
Evaporating Temperature t _e	7,2°C
SuperHeating dt _{oh}	5K
SubCooling dt _u	5K

Capacity under other condition available on our website



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



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

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.

GENERAL CHARACTERISTICS

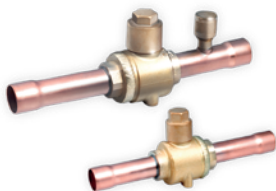
CE RoHS PED & UL

Without Access Fitting		Connections Ø d ODF		Kv	Wrench Size Cap	PED Category	With Access Fitting	
Model	Part Number	[inch]	(mm)	[m ³ /h]	(mm)		Model	Part Number
SBV(M)-A2YHSY-2-SA	10150053902	-	6	1,9	14	4.3	SBV(M)-JA2YHSY-2-SA	10150056702
SBV(M)-A2YHSY-1-SA	10150058302	1/4	-	1,9	14	4.3	SBV(M)-JA2YHSY-1-SA	10150058402
SBV(M)-A3YHSY-2-SA	10150053702	3/8	-	5,5	14	4.3	SBV(M)-JA3YHSY-2-SA	10150053802
SBV(M)-A3YHSY-1-SA	10150057302	-	10	5,5	14	4.3	SBV(M)-JA3YHSY-1-SA	10150056802
SBV(M)-A4YHSY-2-SA	10150057402	-	12	10,2	14	4.3	SBV(M)-JA4YHSY-2-SA	10150057502
SBV(M)-A4YHSY-1-SA	10150054102	1/2	-	10,2	14	4.3	SBV(M)-JA4YHSY-1-SA	10150054002
SBV(M)-A5YHSY-2-SA	10150057602	-	15	13,2	14	4.3	SBV(M)-JA5YHSY-2-SA	10150057702
SBV(M)-A5YHSY-1-SA	10150053302	5/8	16	13,8	14	4.3	SBV(M)-JA5YHSY-1-SA	10150053402
SBV(M)-A6YHSY-2-SA	10150054602	-	18	19,5	17	4.3	SBV(M)-JA6YHSY-2-SA	10150054502
SBV(M)-A6YHSY-1-SA	10150054302	3/4	-	19,5	17	4.3	SBV(M)-JA6YHSY-1-SA	10150054202
SBV(M)-A7YHSY-1-SA	10150053502	7/8	22	28	17	4.3	SBV(M)-JA7YHSY-1-SA	10150053602
SBV(M)-A9YHSY-2-SA	10150055102	-	28	51,5	17	4.3	SBV(M)-JA9YHSY-2-SA	10150055202
SBV(M)-A9YHSY-1-SA	10150054702	1 1/8	-	51,5	17	4.3	SBV(M)-JA9YHSY-1-SA	10150054802
SBV(M)-A11YHSY-1-SA	10150055002	1 3/8	35	80	17	I	SBV(M)-JA11YHSY-1-SA	10150054902
SBV(M)-A13YHSY-2-SA	10150055502	1 5/8	-	119,8	17	I	SBV(M)-JA13YHSY-2-SA	10150055402
SBV(M)-A13YHSY-1-SA	10150055302	-	42	119,8	17	I	SBV(M)-JA13YHSY-1-SA	10150057802
SBV(M)-A17YHSY-1-SA	10150055702	2 1/8	54	225	19	I	SBV(M)-JA17YHSY-1-SA	10150055802
SBV(M)-A19YHSY-1-SA	10150055902	-	64	225	19	I	SBV(M)-JA19YHSY-1-SA	10150056002
SBV(M)-A21YHSY-2-SA	10150056302	2 5/8	-	305	19	I	SBV(M)-JA21YHSY-2-SA	10150056402
SBV(M)-A25YHSY-2-SA	10150056502	3 1/8	80	635	24	I	SBV(M)-JA25YHSY-2-SA	10150056602
SBV(M)-A29YHSY-1-SA	10150057002	3 5/8	92	805	26	I	SBV(M)-JA29YHSY-1-SA	10150056902
SBV(M)-A33YHSY-2-SA	10150056102	4 1/8	105	950	32	I	SBV(M)-JA33YHSY-2-SA	10150056202
SBV(M)-A34YHSY-1-SA	10150057102	4 1/4	108	950	32	I	SBV(M)-JA34YHSY-1-SA	10150057202



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

SBV-R SERIES Ball Valve



The ball valve of series SBV-R 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. The Design Pressure (PS) of the versions SBV-R has been increased to 49 bars allowing the usage in R32 systems.

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)

GENERAL CHARACTERISTICS

Without Access Fitting		Connections Ø d ODF		Kv	Wrench Size Cap	PED Category [Fluid Group 1]	PED Category [Fluid Group 2]	With Access Fitting	
Model	Product Number*	[inch]	(mm)	[m ³ /h]	(mm)			Model	Part Number*
SBV02-020R	10150104702	-	6	1,9	19	Art. 4.3	Art. 4.3	SBV02-320R	10150104902
SBV02-019R	10150104602	1/4	-	1,9	19	Art. 4.3	Art. 4.3	SBV02-319R	10150104802
SBV03-019R	10150105002	3/8	-	5,5	19	Art. 4.3	Art. 4.3	SBV03-319R	10150105202
SBV03-020R	10150105102	-	10	5,5	19	Art. 4.3	Art. 4.3	SBV03-320R	10150105302
SBV04-020R	10150105502	-	12	10,2	19	Art. 4.3	Art. 4.3	SBV04-320R	10150105702
SBV04-019R	10150105402	1/2	-	10,2	19	Art. 4.3	Art. 4.3	SBV04-319R	10150105602
SBV05-120R	10150105802	-	15	13,2	14	Art. 4.3	Art. 4.3	SBV05-420R	10150106002
SBV05-119R	10150100402	5/8	16	13,8	14	Art. 4.3	Art. 4.3	SBV05-419R	10150105902
SBV06-120R	10150106102	-	18	19,5	17	Art. 4.3	Art. 4.3	SBV06-420R	10150106302
SBV06-119R	10150104302	3/4	-	19,5	17	Art. 4.3	Art. 4.3	SBV06-419R	10150106202
SBV07-119R	10150098702	7/8	22	28,0	17	Art. 4.3	Art. 4.3	SBV07-419R	10150106402
SBV09-120R	10150103602	-	28	51,5	17	Cat. 2	Art. 4.3	SBV09-420R	10150103702
SBV09-119R	10150097102	1 1/8	-	51,5	17	Cat. 2	Art. 4.3	SBV09-419R	10150106502
SBV11-119R	10150103802	1 3/8	35	80,0	17	Cat. 2	Cat. 1	SBV11-419R	10150103902
SBV13-119R	10150104402	1 5/8	-	120	17	Cat. 2	Cat. 1	SBV13-419R	10150106702
SBV13-120R	10150106602	-	42	120	17	Cat. 2	Cat. 1	SBV13-420R	10150106802
SBV17-119R	10150104502	2 1/8	54	225	19	Cat. 2	Cat. 1	SBV17-419R	10150106902
SBV19-120R	10150107002	-	64	225	19	Cat. 2	Cat. 1	SBV19-420R	10150107102
SBV21-119R	10150107202	2 5/8	-	305	19	Cat. 2	Cat. 1	SBV21-419R	10150107302

Note: SBV-R model with connection size 3-1/8" (80mm) available on request*
SBV-R model with connection size 3-5/8" (92mm) available on request*
* Size actually not covered by PED cat.II certification

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

MICRO-CHANNEL HEAT EXCHANGERS



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

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



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

RBV-R SERIES Ball Valve



The ball valve of series RBV-R 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. The Design Pressure (PS) of the versions RBV-R has been increased to 49 bars allowing the usage in R32 systems. Moreover, the use of graphite sealing material guarantees a wide refrigerant temperature range [from -60°C to +160°C], and the possibility to install RBV-R valves in the high temperature discharge line of R32 systems.

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.:
-60°C to +160°C

PS

4,9 MPa
(49bar)

GENERAL CHARACTERISTICS

Without Access Fitting		Connections Ø d ODF		Kv	Wrench Size Cap	PED Category [Fluid Group 1]	PED Category [Fluid Group 2]
Model	Part Number*	[inch]	[mm]	[m³/h]	[mm]		
RBV02-003R	10150107402	1/4	-	1,9	24	Art. 4.3	Art. 4.3
RBV02-004R	10150107502	-	6	1,9	24	Art. 4.3	Art. 4.3
RBV03-003R	10150107602	3/8	-	5,5	24	Art. 4.3	Art. 4.3
RBV03-004R	10150107702	-	10	5,5	24	Art. 4.3	Art. 4.3
RBV04-003R	10150107802	1/2	-	10,2	24	Art. 4.3	Art. 4.3
RBV04-004R	10150107902	-	12	10,2	24	Art. 4.3	Art. 4.3
RBV05-003R	10150100302	5/8	16	13,2	24	Art. 4.3	Art. 4.3
RBV06-003R	10150108002	3/4	19	19,5	26	Art. 4.3	Art. 4.3
RBV07-003R	10150108102	7/8	22	28,0	26	Art. 4.3	Art. 4.3
RBV09-003R	10150108202	1-1/8	-	51,5	26	Cat. 2	Art. 4.3
RBV09-004R	10150108302	-	28	51,5	26	Cat. 2	Art. 4.3
RBV11-003R	10150108402	1-3/8	35	80,0	30	Cat. 2	Cat. 1
RBV13-003R	10150108502	1-5/8	-	120	30	Cat. 2	Cat. 1
RBV13-004R	10150108602	-	42	120	30	Cat. 2	Cat. 1
RBV17-003R	10150108702	2-1/8	54	225	30	Cat. 2	Cat. 1

Note: RBV-R model with connection size 2-5/8" available on request*
RBV-R model with connection size 3-1/8" (80mm) available on request*
RBV-R model with connection size 3-5/8" (92mm) available on request*
* Size actually not covered by PED cat. II certification

CBV SERIES Ball Valve



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.

APPLICABLE FOR
R744 (CO₂)

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

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

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

CERTIFICATIONS:
PED declaration



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

GENERAL CHARACTERISTICS

Model	Part Number [®]	Connection Ø d ODF		Kv	Wrench Size Cap	PED Category
		[inch]	[mm]	[m³/h]	[mm]	
CBV02-002	10150074202	-	6	1,9	H14	4.3
CBV02-001	10150074102	1/4	-	1,9	H14	4.3
CBV03-001	10150074302	3/8	-	5,5	H14	4.3
CBV03-002	10150074402	-	10	5,5	H14	4.3
CBV04-002	10150074602	-	12	10,2	H14	4.3
CBV04-001	10150074502	1/2	-	10,2	H14	4.3
CBV05-001	10150074702	5/8	16	13,8	H14	4.3
CBV06-002	10150074902	-	18	19,5	H17	4.3
CBV06-001	10150074802	3/4	-	19,5	H17	4.3
CBV07-001	10150063002	7/8	22	28,0	H17	4.3
CBV09-002	10150075002	-	28	51,5	H17	4.3
CBV09-001	10150062902	11/8	-	51,5	H17	4.3
CBV11-001	10150075102	13/8	35	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	54	225,0	H19	I

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



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Pressure Equipment
Directive 2014/68/EU

CBVT SERIES Ball Valve



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

APPLICABLE FOR
R744 (CO₂)

MEDIUM TEMPERATURE
TS MIN./MAX.:
-56°C/+150°C

MAX. OPERATING PRESSURE PS:
14 MPa (140bar)

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

CERTIFICATIONS:
PED declaration

GENERAL CHARACTERISTICS

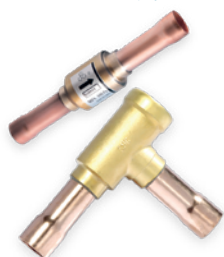
Model	Part number ¹⁾	Connection Ø d ODF		Kv [m ³ /h]	Wrench Size Cap [mm]	PED Category
		[inch]	[mm]			
CBVT 02H002	10150108802	-	6	1,9	H24	4.3
CBVT 02H001	10150103102	1/4	-	1,9	H24	4.3
CBVT 03H001	10150099502	3/8	-	5,5	H24	4.3
CBVT 03H002	10150109102	-	10	5,5	H24	4.3
CBVT 04H002	10150108902	-	12	10,2	H24	4.3
CBVT 04H001	10150099202	1/2	-	10,2	H24	4.3
CBVT 05H002	10150109002	-	15	13,8	H24	4.3
CBVT 05H001	10150099302	5/8	16	13,8	H24	4.3
CBVT 06H002	10150109302	-	18	19,5	H27	4.3
CBVT 06H001	10150099102	3/4	-	19,5	H27	4.3
CBVT 07H001	10150099002	7/8	22	28,0	H27	4.3
CBVT 09H002	10150109202	-	28	34,9	H27	4.3
CBVT 09H001	10150098902	1-1/8	-	34,9	H27	4.3
CBVT 11H001	10150098502	1-3/8	35	80,0	H32	I
CBVT 13H001	10150098602	1-5/8	-	119,8	H32	I
CBVT 13H002	10150109402	-	42	119,8	H32	I

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



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YCV SERIES Check Valve Piston Type



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

REFRIGERANT
R134a, R404A,
R407C, R410A, R507A

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

PS
46 bar

SOLDER CONNECTION

Model	Part Number	Type	Connection Ø ODF		Kv [m ³ /h]
			[inch]	[mm]	
			YCVS 5-11GSHC-1	10160030202	straight-way
YCVS 5-22GSHC-1	10160024502	straight-way	1/4	-	0,56
YCVS 8-33GSHC-1	10160024602	straight-way	3/8	-	1,43
YCVSH 8-33GSHC-1	10160030502	straight-way	3/8	-	1,43
YCVS 8-33GSHC-2	10160031302	straight-way	-	10	1,43
YCVSH 8-33GSHC-2	10160033202	straight-way	-	10	1,43
YCVS 10-33GSHC-1	10160023802	straight-way	-	12	2,1
YCVSH 10-33GSHC-1	10160029102	straight-way	-	12	2,1
YCVS 10-44GSHC-1	10160023902	straight-way	1/2	-	2,1
YCVSH10-44GSHC-1	10160024802	straight-way	1/2	-	2,1
YCVS 13-55GSHC-1	10160024002	straight-way	5/8	16	3,9
YCVSH 13-55GSHC-1	10160024902	straight-way	5/8	16	3,9
YCVS 17-55GSHC-1	10160024202	straight-way	-	18	5,52
YCVSH 17-55GSHC-1	10160036902	straight-way	-	18	5,52
YCVS 17-66GSHC-1	10160024102	straight-way	3/4	-	5,52
YCVSH 17-66GSHC-1	10160028202	straight-way	3/4	-	5,52
YCVS 17-77GSHC-1	10160025002	straight-way	7/8	22	5,52
YCVSH 17-77GSHC-1	10160037502	straight-way	7/8	22	5,52
YCVS 20-77GSHC-1	10160030002	L-shape	7/8	22	13,2
YCVSH 20-77GSHC-1	10160034602	L-shape	7/8	22	13,2
YCVS 26-88GSHC-1	10160037202	L-shape	-	28	19,02
YCVSH 26-88GSHC-1	10160023702	L-shape	-	28	19,02
YCVS 26-99GSHC-1	10160030102	L-shape	1 1/8	-	19,02
YCVSH 26-99GSHC-1	10160034702	L-shape	1 1/8	-	19,02
YCVS 31-BBGSHC-1	10160024402	L-shape	1 3/8	35	29,1
YCVSH 31-BBGSHC-1	10160037402	L-shape	1 3/8	35	29,1
YCVS 31-DDGSHC-1	10160037002	L-shape	1 5/8	-	29,1
YCVSH 31-DDGSHC-1	10160037102	L-shape	1 5/8	-	29,1
YCVS 31-DDGSHC-2	10160032402	L-shape	-	42	29,1
YCVSH 31-DDGSHC-2	10160042302	L-shape	-	42	29,1

CE RoHS

SVJ 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



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

FEMALE / FEMALE

Model	Part number	Order number	Connection Type	Connections ODF	
				Ød	
				[inch]	[mm]
SVJ6	SVJ06H12	10285007102	ODF x ODF Solder	-	6
SVJ6	SVJ06H11	10285007002	ODF x ODF Solder	1/4	-
SVJ10	SVJ10H11	10285007202	ODF x ODF Solder	3/8	-
SVJ10	SVJ10H12	10285007302	ODF x ODF Solder	-	10
SVJ12	SVJ12H11	10285006902	ODF x ODF Solder	1/2	-
SVJ12	SVJ12H12	10285007402	ODF x ODF Solder	-	12
SVJ16	SVJ16H11	10285007502	ODF x ODF Solder	5/8	16
SVJ19	SVJ19H11	10285007602	ODF x ODF Solder	3/4	-
SVJ22	SVJ22H11	10285007702	ODF x ODF Solder	7/8	22

MALE / MALE

Model	Part number	Order number	Connection Type	SAE Flare
				Ød
				[inch]
SVJ6	SVJ06L11	10285007902	Flare M x M	1/4
SVJ10	SVJ10L11	10285008102	Flare M x M	3/8
SVJ12	SVJ12L11	10285008302	Flare M x M	1/2
SVJ16	SVJ16L11	10285008502	Flare M x M	5/8
SVJ19	SVJ19L11	10285008702	Flare M x M	3/4

MALE / FEMALE

Model	Part number	Order number	Connection Type	SAE Flare	Dimensions & Weight						PED Category
				Ød	L	H	ØD	B	Weight		
				[inch]	[mm]	[mm]	[mm]	[mm]	[g]		
SVJ6	SVJ06L41	10285008002	Flare F x M	1/4	46	30	32	22	200	4,3	
SVJ10	SVJ10L41	10285008202	Flare F x M	3/8	57	30	32	22	240	4,3	
SVJ12	SVJ12L41	10285008402	Flare F x M	1/2	59	32	30	24	250	4,3	
SVJ16	SVJ16L41	10285008602	Flare F x M	5/8	71	37	30	24	320	4,3	
SVJ19	SVJ19L41	10285008802	Flare F x M	3/4	75	37	30	24	330	4,3	

CE RoHS PED



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

DTG-M02 SERIES 1.5 in³ filter drier



DTG-M02 series 1.5in³ filter drier are mainly used for light commercial refrigeration applications, with unidirectional flow to absorb moisture and filter out the impurities.

REFRIGERANT
HCFC, HFC, HC, HFO

**MEDIUM
TEMPERATURE:**
-30°C / +120°C

PS
4,83 MPa
(48,3bar)

SELECTION FORMULAS

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

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

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

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

GENERAL CHARACTERISTICS

Filter	Model	Part number (Industrial pack) ¹⁾	Solder connection		Dimensions & Weight				PED Category
			[inch]	[mm]	ØD	B	A	Weight	
					[mm]	[mm]	[mm]	[g]	
DTGM022s	DTG-M02020-901	10230041401	1/4		42	45	77	95	Art. 4.3
DTGM023s	DTG-M02030-901	10230039601	3/8		42	45	77	95	Art. 4.3
DTGM024s	DTG-M02040-901	10230041501	1/2		42	45	83	95	Art. 4.3

Note: 1) Please contact Sanhua representative regarding availability and exact item number. Products can be supplied in industrial boxes only.

SELECTION TABLE

Model	Capacity ²⁾ [kW]					Moisture Absorption (gram H ₂ O)							
	R134a	R404A	R290	R407C ²⁾	R410A	R134a		R404A		R407C ²⁾		R290	
		R507A				75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
						23.9°C	51.7°C	23.9°C	51.7°C	23.9°C	51.7°C	23.9°C	51.7°C
DTGM022s	2.33	1.64	2.56	2.36	2.36	3.2	2.8	3.5	2.9	2.7	2.5	3.0	2.2
DTGM023s	3.50	2.46	3.85	3.54	3.54	3.2	2.8	3.5	2.9	2.7	2.5	3.0	2.2
DTGM024s	4.67	3.28	5.13	4.72	4.82	3.2	2.8	3.5	2.9	2.7	2.5	3.0	2.2

Note: 1) The above data is based on clean system at ideal conditions; with impurities, accumulated in the filter, the capacity may decrease
2) R407C capacity is based on dew point conditions

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.



SELECTION FORMULAS

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

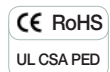
- 0,40 kg/min/kW (3.1 lb/min/t) R134a
- 0,53 kg/min/kW (4.1 lb/min/t) R404A, R507A
- 0,39 kg/min/kW (3.0 lb/min/t) R407C
- 0,36 kg/min/kW (2.8 lb/min/t) R410A

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

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

Model	Capacity ¹⁾ [kW]				Moisture Absorption (gram H ₂ O)					
	R134a	R404A	R407C	R410A	R134a		R404A/R507A		R407C/R410A	
		R507A			75°F	125°F	75°F	125°F	75°F	125°F
					23,9°C	51,7°C	23,9°C	51,7°C	23,9°C	51,7°C
DTGB032s	7,7	6,7	8,1	8,1	4,2	3,8	5,7	3,4	3,4	3,1
DTGB032	7,7	6,7	8,1	8,1	4,2	3,8	5,7	3,4	3,4	3,1
DTGB0325s	9,5	6,7	9,5	9,8	4,2	3,8	5,7	3,4	3,4	3,1
DTGB033s	14,4	10,6	14,8	14,8	4,2	3,8	5,7	3,4	3,4	3,1
DTGB033	14,4	10,6	14,8	14,8	4,2	3,8	5,7	3,4	3,4	3,1
DTGB034s	24,6	17,2	24,6	25,0	4,2	3,8	5,7	3,4	3,4	3,1
DTGB034	24,6	17,2	24,6	25,0	4,2	3,8	5,7	3,4	3,4	3,1
DTGB052s	8,4	6,0	8,4	8,4	11,6	10,9	10,9	8,9	10,9	9,5
DTGB052	8,4	6,0	8,4	8,4	11,6	10,9	10,9	8,9	10,9	9,5
DTGB0525s	10,9	7,4	10,9	11,3	11,6	10,9	10,9	8,9	10,9	9,5
DTGB053s	23,9	16,9	23,9	24,6	11,6	10,9	10,9	8,9	10,9	9,5
DTGB053	23,9	16,9	23,9	24,6	11,6	10,9	10,9	8,9	10,9	9,5
DTGB054s	25,3	17,9	25,7	26,0	11,6	10,9	10,9	8,9	10,9	9,5
DTGB055s	34,8	24,6	35,2	35,9	11,6	10,9	10,9	8,9	10,9	9,5
DTGB082s	8,4	6,0	8,4	8,4	14,8	14,2	16,3	13,4	14,8	13,0
DTGB082	8,4	6,0	8,4	8,4	14,8	14,2	16,3	13,4	14,8	13,0
DTGB0825s	11,6	8,1	11,6	12,0	14,8	14,2	16,3	13,4	14,8	13,0
DTG-B083s	25,0	17,6	25,0	25,7	14,8	14,2	16,3	13,4	14,8	13,0
DTGB083	25,0	17,6	25,0	25,7	14,8	14,2	16,3	13,4	14,8	13,0
DTGB084s	30,6	21,5	30,9	31,7	14,8	14,2	16,3	13,4	14,8	13,0
DTGB084	30,6	21,5	30,9	31,7	14,8	14,2	16,3	13,4	14,8	13,0
DTGB085s	44,7	31,7	45,4	46,1	14,8	14,2	16,3	13,4	14,8	13,0
DTGB162s	10,9	7,7	10,9	11,3	20,6	19,5	33,2	18,3	20,6	17,6
DTGB162	10,9	7,7	10,9	11,3	20,6	19,5	33,2	18,3	20,6	17,6
DTGB1625s	11,6	8,1	11,6	12,0	20,6	19,5	33,2	18,3	20,6	17,6
DTGB163s	25,7	17,9	26,0	26,4	20,6	19,5	33,2	18,3	20,6	17,6
DTGB163	25,7	17,9	26,0	26,4	20,6	19,5	33,2	18,3	20,6	17,6
DTGB164s	32,4	22,9	32,7	33,8	20,6	19,5	33,2	18,3	20,6	17,6
DTGB164	32,4	22,9	32,7	33,8	20,6	19,5	33,2	18,3	20,6	17,6
DTGB165s	43,3	30,6	43,6	44,3	20,6	19,5	33,2	18,3	20,6	17,6
DTGB165	43,3	30,6	43,6	44,3	20,6	19,5	33,2	18,3	20,6	17,6
DTGB166s	46,4	32,7	46,8	47,8	20,6	19,5	33,2	18,3	20,6	17,6
DTGB166	46,4	32,7	46,8	47,8	20,6	19,5	33,2	18,3	20,6	17,6
DTGB167s	47,1	33,4	47,8	48,5	20,6	19,5	33,2	18,3	20,6	17,6
DTGB303s	25,7	17,9	26,0	26,4	51,4	48,7	83,4	51,4	51,3	43,7
DTGB303	25,7	17,9	26,0	26,4	51,4	48,7	83,4	51,4	51,3	43,7
DTGB304s	33,1	23,2	33,4	34,1	51,4	48,7	83,4	51,4	51,3	43,7
DTGB304	33,1	23,2	33,4	34,1	51,4	48,7	83,4	51,4	51,3	43,7
DTGB305s	45,7	32,0	46,1	46,8	51,4	48,7	83,4	51,4	51,3	43,7
DTGB305	45,7	32,0	46,1	46,8	51,4	48,7	83,4	51,4	51,3	43,7
DTGB306s	62,6	44,0	63,3	64,4	51,4	48,7	83,4	51,4	51,3	43,7
DTGB306	62,6	44,0	63,3	64,4	51,4	48,7	83,4	51,4	51,3	43,7
DTGB307s	63,0	44,3	63,7	64,7	51,4	48,7	83,4	51,4	51,3	43,7
DTGB307	63,0	44,3	63,7	64,7	51,4	48,7	83,4	51,4	51,3	43,7
DTGB309s	70,7	52,1	74,6	76,0	51,4	48,7	83,4	51,4	51,3	43,7
DTGB414s	35,2	24,6	35,5	36,2	63,7	59,7	103,5	55,7	63,7	58,9
DTGB414	35,2	24,6	35,5	36,2	63,7	59,7	103,5	55,7	63,7	58,9
DTGB415s	60,8	42,9	61,5	62,6	63,7	59,7	103,5	55,7	63,7	58,9
DTGB415	60,8	42,9	61,5	62,6	63,7	59,7	103,5	55,7	63,7	58,9
DTGB417s	90,4	63,7	91,4	92,8	63,7	59,7	103,5	55,7	63,7	58,9
DTGB419s	92,1	64,7	92,8	94,6	63,7	59,7	103,5	55,7	63,7	58,9
DTGB757s	91,4	64,0	91,8	93,9	123,3	115,6	200,3	107,9	123,3	114,0
DTGB759s	95,3	67,2	96,4	98,1	123,3	115,6	200,3	107,9	123,3	114,0

- Note:** 1) the above data is based on filter driers with inch connections and clean system at ideal conditions; with impurities accumulated in the filter, the capacity may decrease
2) R407C capacity is based on dew point conditions





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

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

SELECTION FORMULAS

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

- 0,40 kg/min/kW (3.1 lb/min/t) R134a
- 0,39 kg/min/kW (3.0 lb/min/ton) R407C
- 0,36 kg/min/kW (2.8 lb/min/ton) R410A
- 0,53 kg/min/kW (4.1 lb/min/ton) R404A, R507A
- PS: 4,83 MPa

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

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



GENERAL CHARACTERISTICS

Model	Capacity [kW] ¹⁾				Moisture Absorption (gram H ₂ O)					
	R134a	R404A	R407C ²⁾	R410A	R134a		R404A/R507A		R407C/R410A	
		R507A			75°F	125°F	75°F	125°F	75°F	125°F
					23,9°C	51,7°C	23,9°C	51,7°C	23,9°C	51,7°C
STGB052s	7,4	5,3	7,7	7,7	4,3	4,0	4,1	3,8	3,7	3,4
STGB052	7,4	5,3	7,7	7,7	4,3	4,0	4,1	3,8	3,7	3,4
STGB053s	16,5	11,6	16,5	16,9	4,3	4,0	4,1	3,8	3,7	3,4
STGB053	16,5	11,6	16,5	16,9	4,3	4,0	4,1	3,8	3,7	3,4
STGB054s	25,0	17,6	25,0	25,3	4,3	4,0	4,1	3,8	3,7	3,4
STGB054	25,0	17,6	25,0	25,3	4,3	4,0	4,1	3,8	3,7	3,4
STGB082s	8,8	6,0	8,8	8,8	9,8	9,0	9,2	8,6	8,5	7,8
STGB082	8,8	6,0	8,8	8,8	9,8	9,0	9,2	8,6	8,5	7,8
STGB0825s	15,8	10,9	15,8	16,2	9,8	9,0	9,2	8,6	8,5	7,8
STGB083s	17,2	12,0	17,2	17,6	9,8	9,0	9,2	8,6	8,5	7,8
STGB083	17,2	12,0	17,2	17,6	9,8	9,0	9,2	8,6	8,5	7,8
STGB084s	25,7	17,9	26,0	26,4	9,8	9,0	9,2	8,6	8,5	7,8
STGB084	25,7	17,9	26,0	26,4	9,8	9,0	9,2	8,6	8,5	7,8
STGB163s	19,7	13,7	19,7	20,0	17,6	16,3	16,6	15,5	15,2	14,0
STGB163	19,7	13,7	19,7	20,0	17,6	16,3	16,6	15,5	15,2	14,0
STGB164s	30,2	21,5	30,6	30,9	17,6	16,3	16,6	15,5	15,2	14,0
STGB164	30,2	21,5	30,6	30,9	17,6	16,3	16,6	15,5	15,2	14,0
STGB165s	34,1	23,9	34,5	35,2	17,6	16,3	16,6	15,5	15,2	14,0
STGB165	34,1	23,9	34,5	35,2	17,6	16,3	16,6	15,5	15,2	14,0
STGB167s	42,2	29,9	42,6	43,3	17,6	16,3	16,6	15,5	15,2	14,0
STGB303s	25,0	17,6	25,0	25,7	41,3	38,4	38,9	36,5	35,9	32,9
STGB303	25,0	17,6	25,0	25,7	41,3	38,4	38,9	36,5	35,9	32,9
STGB304s	30,9	21,8	31,7	32,0	41,3	38,4	38,9	36,5	35,9	32,9
STGB304	30,9	21,8	31,7	32,0	41,3	38,4	38,9	36,5	35,9	32,9
STGB305s	35,5	25,0	35,9	36,6	41,3	38,4	38,9	36,5	35,9	32,9
STGB305	35,5	25,0	35,9	36,6	41,3	38,4	38,9	36,5	35,9	32,9
STGB306s	39,6	28,1	39,7	40,4	41,3	38,4	38,9	36,5	35,9	32,9
STGB306	39,6	28,1	39,7	40,4	41,3	38,4	38,9	36,5	35,9	32,9
STGB307s	46,4	32,4	46,8	47,5	41,3	38,4	38,9	36,5	35,9	32,9
STGB309s	54,2	38,0	54,5	55,6	41,3	38,4	38,9	36,5	35,9	32,9

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

2) R407C data based on dew point conditions

PRODUCT OVERVIEW

Product	R407A/R407F	R448A/R449A	R452A	R450A	R513A	R290	R744	R744	Product	R32 (PS=45bar)	R32 (PS=49bar)
Application	Comm. Refrigeration (low temp.)		Transportation Refrigeration (low temp)	Transportation Refrigeration Bus AC (mid-high temp)		Comm. Refrigeration Food Retail	Comm.Refrigeration Heat pump (transcritical)	Comm.Refr. (subcritical)	Application	Air-Conditioning	
BCV									DPF		
CBV									DPF_R32		
CBVT									VPF		
DPF							DPF (R)		SHF		
DTG									SHF-R		
FDG									YCVS		
HDF									YCVS-R		
HTG									CCV		
MDF									MDF		
LPF								LPF-D	MDF-R		
RFGB									HDF		
RFGD									LDF		
RFKH									FDG		
SBV									DTG		
SHF									DTG-R		
STG									STG		
SYJ									STG-R		
VPF									HTG		
YCQ									YCQ		
YCVS								YCVS 45bar	SYJ		
									SYJ-R		

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

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

SELECTION FORMULAS

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

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

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

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



GENERAL CHARACTERISTICS OF FILTER

Series	Model	Part Number	Solder Connections ODF		Number of cores	Dimensions & Weight					Design Pressure (MPa)	PED category
			[inch]	[mm]		A	B	L	G	Weight ¹⁾		
HTG A48s	HTG-A48050-901	10225004502	5/8	16	250	164	170	116	5,1	4,5	Cat. I	
	HTG-A48070-901	10225004402	7/8	22	249	163	170	116	5,1	4,5		
	HTG-A48090-901	10225004302	1 1/8	-	254	168	170	121	5,1	4,5		
	HTG-A48281-901	10225004202	-	28	254	168	170	121	5,1	4,5		
	HTG-A48110-901	10225004102	1 3/8	35	253	167	170	121	5,1	4,5		
	HTG-A48130-901	10225004002	1 5/8	-	272	186	170	141	5,1	4,5		
	HTG-A48421-901	10225003802	-	42	272	186	170	141	5,1	4,5		
	HTG-A48170-901	10225003902	2 1/8	54	275	182	170	145	5,1	4,5		
HTG A96s	HTG-A48210-901	10225003702	2 5/8	-	277	177	170	149	5,1	4,5		
	HTG-A96050-901	10225003602	5/8	16	391	305	310	116	6,2	4,5		
	HTG-A96070-901	10225003502	7/8	22	390	304	310	116	6,2	4,5		
	HTG-A96090-901	10225003302	1 1/8	-	395	309	310	121	6,2	4,5		
	HTG-A96281-901	10225003402	-	28	395	309	310	121	6,2	4,5		
	HTG-A96110-901	10225003202	1 3/8	35	394	308	310	121	6,2	4,5		
	HTG-A96130-901	10225003102	1 5/8	-	413	327	310	141	6,2	4,5		
	HTG-A96421-901	10225003002	-	42	413	327	310	141	6,2	4,5		
HTG B44s	HTG-A96170-901	10225002902	2 1/8	54	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	16	532	446	310	116	7,6	4,5		
	HTG-B44070-901	10225002602	7/8	22	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	-	28	536	450	310	121	7,6	4,5		
	HTG-B44110-901	10225002302	1 3/8	35	535	449	310	121	7,6	4,5		
	HTG-B44130-901	10225002202	1 5/8	-	554	468	310	141	7,6	4,5		
HTG B92s	HTG-B44421-901	10225002102	-	42	554	468	310	141	7,6	4,5		
	HTG-B44170-901	10225001902	2 1/8	54	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	16	677	591	310	116	9,1	4,5		
	HTG-B92070-901	10225001602	7/8	22	676	590	310	116	9,1	4,5		
	HTG-B92090-901	10225001502	1 1/8	-	681	595	310	121	9,1	4,5		
	HTG-B92281-901	10225004602	-	28	681	595	310	121	9,1	4,5		
	HTG-B92110-901	10225001402	1 3/8	35	680	594	310	121	9,1	4,5		
HTG B92s	HTG-B92130-901	10225002002	1 5/8	-	699	613	310	141	9,1	4,5		
	HTG-B92421-901	10225001302	-	42	699	613	310	141	9,1	4,5		
	HTG-B92170-901	10225001202	2 1/8	54	702	609	310	145	9,1	4,5		
	HTG-B92210-901	10225001102	2 5/8	-	704	604	310	149	9,1	4,5		

Remarque: 1) les performances vont diminuer ci-dessus sont calculées avec une installation propre et à des conditions idéales. Avec une accumulation d'impuretés dans le filtre, les performances vont diminuer.

Suction line Filter-Driers guarantees an acid removal and a drying capacity described in table 7:

Drying capacity: SH48-A30 ¹⁾					
Filter Type		HTG-A48	HTG-A96	HTG-B44	HTG-B92
Number of cores		1	2	3	4
Acid Adsorption capacity (g) ²⁾		28,0	56,0	84,0	112,0
Refrigerant	Evaporating Temp. (°C) ³⁾	Moisture Absorption [gram H2O]			
R407C ²⁾	-40,0	26,0	52,0	78,0	104,0
	-20,0	18,0	36,3	54,0	72,0
	4,4	11,0	22,0	32,0	43,0
R134a	-30,0	43,0	86,0	129,0	172,0
	-20,0	36,0	72,0	108,0	144,0
	4,4	25,0	50,0	75,0	100,0
R404A / R507	-40,0	45,0	90,0	135,0	180,0
	-20,0	28,0	56,0	84,0	112,0
	4,4	18,0	36,0	54,0	72,0
R410A	-40,0	40,0	80,0	120,0	160,0
	-20,0	33,0	66,0	99,0	132,0
	4,4	24,0	48,0	72,0	96,0

Drying capacity is expressed during drying in:

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

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

R407C: EPD = 10 ppm W, corresponding dew point temperature is -40°C

- Note:**
1. The data reported in the Table 2, 3, 6 and 7 are based on filter driers in a clean system at ideal conditions; with impurities accumulated in the filter, the capacity may decrease.
 2. R407C data based on dew point conditions
 3. Adsorption capacity of oleic acid at 0.05 TAN (Total Acid Number)
 4. Standard Evaporating Temperature defined by ANSI.AHRI Standard 731 (S)-2013
 5. Standard Evaporating Temperature defined by ANSI.AHRI Standard 730 (I-P)-2013

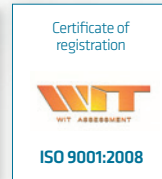
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