



WHOLESALE

Product Catalogue & Wholesale Cross-Reference 2023

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Filter-Drier Shells with Replaceable Core



Effective and Efficient: Filters solid particles, absorbs moisture and removes acid

Filter-drier shells with replaceable cores are designed for big system protection. The large capacity models are ideal for new system startups to remove moisture and solid particle contamination from field piping. The replaceable core design also simplifies continued system protection and preventive maintenance initiatives.



FILTER-DRIER SHELL, LIQUID CAPACITY

Aftermarket Model	Liquid Capacity (tons) ¹							Conn. Solder (inch)
	R-404A/ R-507	R-448A-R- 449A	R-407A	R-134a	R-450a	R-22	R-410A	
FDSH-48-5-S	13.2	17.2	17.1	17.9	16.6	19.2	19.0	5/8 ODF
FDSH-48-7-S	21.2	27.6	27.5	28.8	26.7	30.8	30.5	7/8 ODF
FDSH-48-9-S	30.2	39.4	39.3	41.1	38.1	44.0	43.5	1-1/8 ODF
FDSH-48-11-S	40.8	53.2	53.0	55.5	51.4	59.5	58.8	1-3/8 ODF
FDSH-96-7-S	21.2	27.6	27.5	28.8	26.7	30.8	30.5	7/8 ODF
FDSH-96-9-S	30.2	39.4	39.3	41.1	38.1	44.0	43.5	1-1/8 ODF
FDSH-96-13-S	50.1	65.3	65.1	68.2	63.1	73.0	72.2	1-5/8 ODF
FDSH-144-9-S	30.2	39.4	39.3	41.1	38.1	44.0	43.5	1-1/8 ODF
FDSH-144-11-S	40.8	53.2	53.0	55.5	51.4	59.5	58.8	1-3/8 ODF
FDSH-192-11-S	40.8	53.2	53.0	55.5	51.4	59.5	58.8	1-3/8 ODF
FDSH-192-13-S	50.1	65.3	65.1	68.2	63.1	73.0	72.2	1-5/8 ODF
FDSH-192-17-S	71.3	92.9	92.6	97.0	89.8	104	103	2-1/8 ODF

FDSH 48 5 S

L S = Sweat Connections
 Connection Size in eighths of an inch
 Internal Volume in cubic inches
 Type: Filter-Drier Shell

FD CORES AND ELEMENT

Aftermarket Model	Description	Filter Media
FD Core 48Hi	High Moisture	100% Molecular Sieve
FD Filter 48	Filter Element	pure Wood Pulp Filter Paper

REFRIGERANT
R-22, R-134a, R-404A,
R-407C, R-410A, R-507

LARGE TEMP SERVICE RANGE
-40°F to +248°F

FILTRATION
20 pm
OPD MAX
580 psig

PS
650 psig

FILTER-DRIER SHELL, SUCTION CAPACITY

Suction Capacity (tons) ²													Conn. Solder (inch)
Refrigerant	R-404A		R-448A		R-407A		R-134a	R-450A	R-22			R-410A	
Evap. Temp.	20°F	-20°F	20°F	-20°F	20°F	-20°F	20°F	20°F	40°F	20°F	-20°F	40°F	
Press. Drop (psi)	2.0	1.0	2.0	1.0	2.0	1.0	1.5	1.5	3.0	2.0	1.0	3.0	
FDSH-48-5-S	2.18	0.93	2.35	1.01	2.30	0.98	1.69	1.52	3.87	2.47	1.11	4.81	5/8 ODF
FDSH-48-7-S	3.49	1.50	3.77	1.62	3.68	1.57	2.71	2.44	6.21	3.96	1.79	7.72	7/8 ODF
FDSH-48-9-S	5.74	2.47	6.20	2.68	6.06	2.59	4.46	4.01	10.2	6.51	2.95	12.68	1-1/8 ODF
FDSH-48-11-S	7.90	3.39	8.53	3.67	8.34	3.56	6.14	5.53	14.0	8.96	4.04	17.40	1-3/8 ODF
FDSH-96-7-S	3.72	1.60	4.02	1.73	3.93	1.68	2.89	2.60	6.61	4.22	1.91	8.22	7/8 ODF
FDSH-96-9-S	6.10	2.62	6.59	2.84	6.44	2.75	4.74	4.27	10.8	6.92	3.13	13.42	1-1/8 ODF
FDSH-96-11-S	8.41	3.61	9.08	3.91	8.87	3.79	6.53	5.88	14.9	9.54	4.31	18.52	1-3/8 ODF
FDSH-96-13-S	10.3	4.43	11.12	4.80	10.87	4.65	8.00	7.20	18.3	11.69	5.28	22.75	1-5/8 ODF
FDSH-144-9-S	6.31	2.71	6.81	2.93	6.66	2.84	4.90	4.41	11.2	7.16	3.23	13.92	1-1/8 ODF
FDSH-144-11-S	8.72	3.75	9.42	4.06	9.20	3.93	6.77	6.09	15.5	9.89	4.47	19.27	1-3/8 ODF
FDSH-192-11-S	9.23	3.97	9.97	4.30	9.74	4.16	7.17	6.45	16.4	10.47	4.74	20.38	1-3/8 ODF
FDSH-192-13-S	11.3	4.89	12.20	5.30	11.92	5.13	8.85	7.97	20.2	12.82	5.83	25.11	1-5/8 ODF
FDSH-192-17-S	13.8	5.93	14.90	6.42	14.56	6.22	10.7	9.63	24.5	15.66	7.07	30.45	2-1/8 ODF

Note: 1. Rated in accordance with AHRI Standard 710 (I-P): 5°F Evaporator Temperature, 86°F Liquid Temperature, 1psi Pressure Drop.
 2. Rated in accordance with ANSI/AHRI Standard 730 (I-P): 90°F Liquid Temperature, 25°F Superheated Vapor

Sealed Model Filter-Drier

GO WITH THE FLOW

Sanhua Filter-Drier molded cores are engineered with a blend of desiccants to protect systems against moisture and acid. The core is secured in place with fiberglass pads on both ends and a 100 mesh metal support screen at the outlet. The pads and core together provide a large available filtering area to remove solid particle contamination to an extremely low level of 20 microns. Sanhua Filter-Driers are compatible with all common HCFC and HFC refrigerants and are UL Listed to a maximum operating pressure of 700 psig.

Sealed Model FD Nomenclature

FD 16 3 S

S = Sweat Connections (Omit for SAE Flare Connections)
 Connection Size in eighths of an inch
 Desiccant volume in cubic inches
 Type: Filter-Drier

*80% Molecular Sieve
 20% Activated Alumina*

*500 Hour Salt Spray
 Corrosion Resistance*



Sealed Model Filter-Drier | Molded Core



SOLDER CONNECTION

Aftermarket Model	Liquid Capacity (tons) ¹							Conn. Solder (inch)
	R-404A/R-507	R-448A/R-449A	R-407A	R-134a	R-450a	R-22	R-410A	
FD-032-S	1.1	1.4	1.4	1.5	1.4	1.6	1.6	1/4 ODF
FD-033-S	2.4	3.1	3.1	3.3	3.0	3.5	3.5	3/8 ODF
FD-052-S	1.3	1.7	1.7	1.8	1.6	1.9	1.9	1/4 ODF
FD-053-S	3.5	4.6	4.5	4.8	4.4	5.1	5.0	3/8 ODF
FD-082-S	1.3	1.7	1.7	1.8	1.6	1.9	1.9	1/4 ODF
FD-083-S	3.8	4.9	4.9	5.2	4.8	5.5	5.5	3/8 ODF
FD-084-S	5.5	7.2	7.1	7.5	6.9	8.0	7.9	1/2 ODF
FD-163-S	3.9	5.1	5.1	5.3	4.9	5.7	5.6	3/8 ODF
FD-164-S	5.7	7.4	7.4	7.8	7.2	8.3	8.2	1/2 ODF
FD-165-S	7.9	10.3	10.3	10.7	10.0	11.5	11.4	5/8 ODF
FD-166-S	8.4	10.9	10.9	11.4	10.6	12.2	12.1	3/4 ODF
FD-167-S	8.6	11.2	11.2	11.7	10.8	12.5	12.4	7/8 ODF
FD-303-S	3.9	5.1	5.1	5.3	4.9	5.7	5.6	3/8 ODF
FD-304-S	5.8	7.6	7.5	7.9	7.3	8.4	8.4	1/2 ODF
FD-305-S	8.3	10.8	10.8	11.3	10.5	12.1	12.0	5/8 ODF
FD-306-S	11.4	14.8	14.8	15.5	14.4	16.6	16.4	3/4 ODF
FD-307-S	11.5	15.0	14.9	15.6	14.5	16.7	16.6	7/8 ODF
FD-309-S	13.5	17.6	17.5	18.4	17.0	19.7	19.4	1-1/8 ODF
FD-414-S	6.4	8.3	8.3	8.7	8.1	9.3	9.2	1/2 ODF
FD-415-S	10.9	14.2	14.2	14.8	13.7	15.9	15.7	5/8 ODF
FD-417-S	14.2	18.5	18.4	19.3	17.9	20.7	20.5	7/8 ODF
FD-419-S	15.3	19.9	19.9	20.8	19.3	22.3	22.0	1-1/8 ODF
FD-757-S	15.8	20.6	20.5	21.5	19.9	23.0	22.8	7/8 ODF
FD-759-S	16.6	21.6	21.6	22.6	20.9	24.2	23.9	1-1/8 ODF

SAE FLARE CONNECTION

Aftermarket Model	Liquid Capacity (tons) ¹							Conn. Flare (inch)
	R-404A/R-507	R-448A/R-449A	R-407A	R-134a	R-450a	R-22	R-410A	
FD-032	1.1	1.4	1.4	1.5	1.4	1.6	1.6	1/4 SAE
FD-052	1.3	1.7	1.7	1.8	1.6	1.9	1.9	1/4 SAE
FD-053	3.3	4.3	4.3	4.5	4.2	4.8	4.8	3/8 SAE
FD-082	1.3	1.7	1.7	1.8	1.6	1.9	1.9	1/4 SAE
FD-083	3.6	4.7	4.7	4.9	4.5	5.2	5.2	3/8 SAE
FD-162	1.3	1.7	1.7	1.8	1.6	1.9	1.9	1/4 SAE
FD-163	3.7	4.8	4.8	5.0	4.7	5.4	5.3	3/8 SAE
FD-164	5.5	7.2	7.1	7.5	6.9	8.0	7.9	1/2 SAE
FD-165	7.7	10.0	10.0	10.5	9.7	11.2	11.1	5/8 SAE
FD-303	3.7	4.8	4.8	5.0	4.7	5.4	5.3	3/8 SAE
FD-304	5.6	7.3	7.3	7.6	7.1	8.2	8.1	1/2 SAE
FD-305	8.1	10.5	10.5	11.0	10.2	11.8	11.7	5/8 SAE
FD-414	6.2	8.1	8.1	8.4	7.8	9.0	8.9	1/2 SAE
FD-415	10.5	13.7	13.6	14.3	13.2	15.3	15.1	5/8 SAE

REFRIGERANT

R-22, R-134a, R-290,
 R-404A, R-407C, R-410A,
 R-507

LARGE TEMP SERVICE RANGE
 -22°F to +275°F

OPD MAX
 580 psig

PS
 650 psig

OPD MAX
 580 psig

PS
 650 psig



Note:

1. Rated in accordance with AHRI Standard 710 (I-P):
 5°F Evaporator temperature, 86°F Liquid temperature,
 1 psi Pressure Drop

Stops Contaminants, Moisture & Acid



System protector for optimum performance & efficiency



Effective & Efficient: Filters solid particles, adsorbs moisture and removes acid



Corrosion resistant



UL Listed



Bi-Flow Filter-Drier | Solid Filter Core



SOLDER CONNECTION

Aftermarket Model	Capacity (tons) ¹⁾					Connection Solder (inch)
	R-134a	R-404A/R-507	R-22	R-407C	R-410A	
FDBI-083-S	4.2	3.1	4.5	4.5	4.5	3/8 ODF
FDBI-084-S	6.4	4.7	6.8	6.8	6.8	1/2 ODF
FDBI-163-S	4.8	3.5	5.1	5.1	5.0	3/8 ODF
FDBI-164-S	7.5	5.5	8.0	8.0	7.9	1/2 ODF
FDBI-165-S	8.4	6.2	9.0	9.0	8.9	5/8 ODF
FDBI-303-S	6.1	4.5	6.6	6.5	6.5	3/8 ODF
FDBI-304-S	7.6	5.6	8.2	8.2	8.1	1/2 ODF
FDBI-305-S	8.8	6.5	9.5	9.4	9.4	5/8 ODF



SAE FLARE CONNECTION

Aftermarket Model	Capacity (tons) ¹⁾					Connection Solder (inch)
	R-134a	R-404A/R-507	R-22	R-407C	R-410A	
FDBI-083	4.1	3.0	4.4	4.4	4.3	3/8 SAE
FDBI-084	6.3	4.6	6.7	6.7	6.6	1/2 SAE
FDBI-163	4.8	3.5	5.1	5.1	5.0	3/8 SAE
FDBI-164	7.5	5.5	8.0	8.0	7.9	1/2 SAE
FDBI-165	8.4	6.2	9.0	9.0	8.9	5/8 SAE
FDBI-304	7.6	5.6	8.2	8.2	8.1	1/2 SAE

Note: 1. Rated in accordance with AHRI Standard 710 (I-P): 5°F Evaporator temperature, 86°F Liquid temperature, 1 psi Pressure Drop

Bi-Flow FD Nomenclature

FDBI 16 3 S

S = Sweat Connections
(Omit for SAE Flare Conn.)

Connection Size
in eighths of an inch

Desiccant volume in
cubic inches

Type:
Filter-Drier Bi-Flow

REFRIGERANT

R-22, R-134a, R-404A,
R-407C, R-410A, R-507

LARGE TEMP SERVICE RANGE

-22°F to +248°F
PS 650 psig

FILTRATION

20 pm
OPD MAX
580 psig

PS

700 psig



First Line of Protection

Ideal for New Equipment Installation and System Clean-up



Molded Core with High Moisture and Acid Capacity



*System Protector for Optimum Efficiency
and Performance*



Suction Line FD Nomenclature

FDSL 16 3 S

S = Sweat Connections
(Omit for SAE Flare Conn.)

Connection Size
in eighths of an inch

Desiccant volume in
cubic inches

Type:
Filter-Drier Suction Line

TECHNICAL DATA

Model	Nomial Volume	Connection Size, "ØD"
	in ³	ODF (in)
FDSL-083-S	8	3/8
FDSL-084-S		1/2
FDSL-085-S		5/8
FDSL-086-S		3/4
FDSL-087-S		7/8

Model	Nomial Volume	Connection Size, "ØD"
	in ³	ODF (in)
FDSL-163-S	16	3/8
FDSL-164-S		1/2
FDSL-165-S		5/8
FDSL-166-S		3/4
FDSL-167-S		7/8

Model	Nomial Volume	Connection Size, "ØD"
	in ³	ODF (in)
FDSL-305-S	30	5/8
FDSL-306-S		3/4
FDSL-307-S		7/8
FDSL-309-S		1-1/8

REFRIGERANT CAPACITY TABLES

Suction Capacity (tons) ²													Conn. Solder (inch)
Refrigerant	R-404A		R-448A		R-407A		R-134a	R-450A	R-22			R-410A	
Evap. Temp.	20°F	-20°F	20°F	-20°F	20°F	-20°F	20°F	20°F	40°F	20°F	-20°F	40°F	
Press. Drop (psi)	2.0	1.0	2.0	1.0	2.0	1.0	1.5	1.5	3.0	2.0	1.0	3.0	
FDSL-083-S	0.80	0.34	0.86	0.37	0.84	0.36	0.62	0.56	1.42	0.91	0.41	1.77	3/8 ODF
FDSL-084-S	1.17	0.50	1.26	0.54	1.23	0.52	0.90	0.81	2.07	1.33	0.60	2.57	1/2 ODF
FDSL-085-S	1.56	0.67	1.68	0.73	1.65	0.70	1.21	1.09	2.78	1.77	0.80	3.46	5/8 ODF
FDSL-086-S	1.68	0.72	1.81	0.78	1.77	0.76	1.30	1.17	2.99	1.91	0.86	3.72	3/4 ODF
FDSL-087-S	1.72	0.74	1.86	0.80	1.81	0.78	1.33	1.20	3.06	1.95	0.88	3.80	7/8 ODF
FDSL-163-S	0.82	0.35	0.89	0.38	0.87	0.37	0.63	0.57	1.45	0.93	0.42	1.81	3/8 ODF
FDSL-164-S	1.20	0.51	1.30	0.55	1.27	0.53	0.93	0.84	2.14	1.36	0.61	2.66	1/2 ODF
FDSL-165-S	1.66	0.71	1.79	0.77	1.75	0.74	1.29	1.16	2.96	1.88	0.85	3.68	5/8 ODF
FDSL-166-S	1.77	0.76	1.91	0.82	1.87	0.80	1.37	1.23	3.14	2.01	0.91	3.90	3/4 ODF
FDSL-167-S	1.82	0.78	1.97	0.84	1.92	0.82	1.41	1.27	3.23	2.06	0.93	4.01	7/8 ODF
FDSL-305-S	1.74	0.75	1.88	0.81	1.84	0.79	1.35	1.22	3.10	1.97	0.89	3.85	5/8 ODF
FDSL-306-S	2.40	1.03	2.59	1.12	2.53	1.08	1.87	1.68	4.27	2.72	1.23	5.31	3/4 ODF
FDSL-307-S	2.41	1.03	2.60	1.12	2.54	1.08	1.87	1.68	4.29	2.73	1.23	5.33	7/8 ODF
FDSL-309-S	2.84	1.22	3.07	1.32	3.00	1.28	2.20	1.98	5.05	3.22	1.46	6.28	1-1/8 ODF

Note: ²Rated in accordance with ANSI/AHRI Standard 730 (I-P): 90°F Liquid Temperature, 25°F Superheated Vapor

Detects Liquid and Moisture Level



Easy to read Wide Angle Sight Glass



High Precision Color Indicator



Compatible with all common HCFC and HFC refrigerants



100% Factory Leak Tested

REFRIGERANT

R-22, R-134a, R-290,
R-404A, R-407C, R-410A,
R-507, R-744, R-407A/F,
R-1234ze

LARGE TEMPERATURE SERVICE RANGE

-58°F to +176°F

PS

667 psig



SAE FLARE: MALE x FEMALE



ODF SOLDER



Aftermarket Model	Connection Type	SAE Flare
		(inch)
SG-2-FM	Flare F x M	1/4
SG-3-FM	Flare F x M	3/8
SG-4-FM	Flare F x M	1/2

SAE FL

Aftermarket Model	Connection Type Solder	Connection ODF
		(inch)
SG-2-S	ODF x ODF	1/4
SG-3-S	ODF x ODF	3/8
SG-4-S	ODF x ODF	1/2
SG-5-S	ODF x ODF	5/8
SG-7-S	ODF x ODF	7/8



Aftermarket Model	Connection Type	SAE Flare
		(inch)
SG-2	Flare M x M	1/4
SG-3	Flare M x M	3/8
SG-4	Flare M x M	1/2



SEC Superheat Control Kit for EEVs

**Less Truck Stock,
Fewer Tools
Faster Installation**

-  Wide refrigerant temperature range
-  High maximum operating pressure differential (MOPD)
-  Low energy consumption coil
-  Coils are double sealed water tight and safe



*With a few components on the truck, contractors can replace thousands of TXV variations they encounter.
One control kit and five EEVs replace thousands of refrigeration TXVs!*



The Sanhua Superheat Control Kit contains:

- One SEC13 EEV controller
- One Temperature Sensor w/16-foot cable
- One Pressure Transducer w/16-foot cable
- One 5-wire Stator for LPF/DPF EEV w/20-foot cable

SEC Superheat Control Kit		
Aftermarket Model		Description
SEC613-R4 Kit-LPF	SEC613-R4	Controller
	NTC5A1	Temperature Sensor
	YQCB02L28-1	Pressure Transducer
	PQ-M24012-000009	EEV Stator
Not included in Kit	PQ-M03012-000001	EEV Stator for DPF(S03)



Sanhua Superheat Control Kit - The Next Generation of Refrigeration!

Sanhua offers 5 models of LPF EEVs to pair with the SEC Superheat Control Kit



- Real-time display of system metrics including temperature & pressure
- Configure for different system refrigerants with the touch of a button
- No more turning TXV adjusting stems, set the superheat with a button press

LPF 10 D

EEV Model Type

Port Diameter in mm:

Co2 Certifier:

D= Certified for Co2 use, otherwise "D" is omitted

NOMINAL FLOW CAPACITY, TONS

LPF IS FOR REFRIGERATION AND AC (COOLING DUTY ONLY)

Sanhua EEV	TXV Cross - Reference: Solder Connections: 3/8" ODF x 1/2" ODF							Sporlan TXV Balanced Port
	R-134a	R-448A	R-404A	R-407A	R-407F	R-22	R-410A	All Refrigerants
LPF08	1/8 to 1/6	1/5 to 1/3	1/8 to 1/6	1/5 to 1/3	1/5 to 1/3	1/5 to 1/3	1/5 to 1/3	AAA
LPF10	1/4	1/2	1/4	1/2 to 3/4	1/2 to 3/4	1/2 to 3/4	1/2 to 3/4	AA
LPF14	1/2 to 1	3/4 to 1-1/2	1/2 to 1	1 to 1-1/2	1 to 1-1/2	1 to 1-1/2	1 to 1-1/2	A
LPF18	1-1/2 to 1-3/4	2	1-1/4 to 1-1/2	2 to 2-1/2	2 to 2-1/2	2 to 2-1/2	2 to 2-1/2	B
LPF24	2 to 3	1-1/2 to 4	2 to 3	3 to 5	3 to 5	3 to 5	3 to 5	C

NOMINAL FLOW CAPACITY, TONS

DPF IS FOR AC AND HEAT PUMP SYSTEMS (SUPPORTS BI-FLOW OPERATION)

DPF (TSI) 1.3 C - XXX

EEV Model Type

LPF

DPF(TS1) = Up to 3.2mm port

DPF(S03) = Greater than 3.2mm port

Port Diameter in mm

Certifier: "C" or "Blank" - Standard certification

"D" - CO2 Certified

Product Serial Number:

Designates different fitting sizes

Thermostatic Expansion Valve TXVH



The EASY Cartridge Style TXV

- Easy component selection
- Easy to stock with fewer parts
- Easy on-the-spot assembly

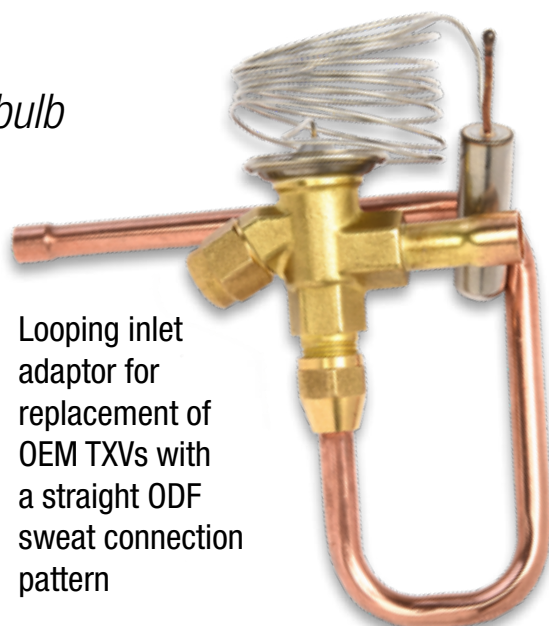
Universal Replacement for over 95% of installed refrigeration TXVs!

Control superheat with confidence. The Sanhua model TXVH is designed with world-class engineering and manufacturing technology combined with premium materials for superior performance.

- Wide evaporator temperature range thermostatic charge
- Utilizes cross-charge technology
- Available with MOP function to protect compressor from excessive suction pressure during operation
- Stainless steel power head, capillary, and sensing bulb
Fixed and welded power head improves assembly integrity and simplifies component selections



Eight inlet cartridges available for precise capacity selection



Looping inlet adaptor for replacement of OEM TXVs with a straight ODF sweat connection pattern

Adaptor for ODF sweat inlet connection

REFRIGERANT

R-22, R-134a, R-404A,
R-407C, R-407F, R-410A,
R-507

LARGE TEMP SERVICE RANGE

-30°F to +130°F
OPD MAX 580 psig
PS 650 psig

FLUID TEMP RANGE

-40°F to +158°F

MAX OP

667 psig

Step 1:

Select orifice size based on nominal capacity



Step 2:

Select body to match refrigerant and connection style desired

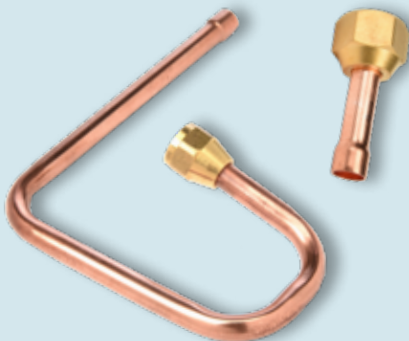


Step 3:

SOLDER ADAPTERS

Aftermarket Model	Solder Connection
TXVH-3S-IN	3/8"
TXVH-2S-IN	1/4"
TXVH-3 Loop-IN	3/8"

Note: 1. Copper tube and flare nut are included



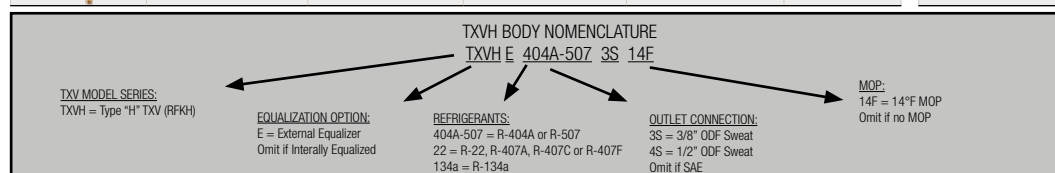
STEP 1: ORIFICE SELECTION CRITERIA

Orifice Model	Nominal Capacity					
	R-22 R-407A R-407C R-407F		R-404A R-507		R-134a	
	Tons	Balanced Port	Tons	Balanced Port	Tons	Balanced Port
TXVH-0X	1/5	-	1/8	-	1/8	-
TXVH-00	1/3	AAA	1/4	AAA	1/5	AAA
TXVH-01	3/4	AA	1/2	AA	1/3	-
TXVH-02	1	-	3/4	-	1/2	AA
TXVH-03	1-1/2	A	1-1/4	A	3/4	-
TXVH-04	2-1/2	B	2	B	1	A
TXVH-05	3-1/2	-	2-1/2	-	1-3/4	B
TXVH-06	5	C	3	C	2-1/2	C

STEP 2: SELECT BODY TO MATCH REFRIGERANT AND CONNECTION

STEP 3

Valve Body Configuration Inlet x Outlet x Equalizer		R-22 R-407A R-407C R-407F	R-404A R-507	R-407A R-507 Low Temp (with MOP)	R-134a	Inlet Adaptor
	3/8 x 1/2 SAE Flare (Internally Equalized)	TXVH-22	TXVH-404A-507	TXVH-404A-507-14F	TXVH-134a	Not Required
	3/8 x 1/2 x 1/4 SAE Flare	TXVHE-22	TXVHE-404A-507	TXVHE-404A-507-14F	TXVHE-134a	Not Required
	1/4 x 3/8 ODF Sweat (Internally Equalized)	TXVH-22-3S	TXVH-404A-507-3S	TXVH-404A-507-3S-14F	TXVH-134a-3S	TXVH-2S-IN
	1/4 x 3/8 x 1/4 ODF Sweat	TXVHE-22-3S	TXVHE-404A-507-3S	TXVHE-404A-507-3S-14F	TXVHE-134a-3S	TXVH-2S-IN
	3/8 x 1/2 ODF Sweat (Internally Equalized)	TXVH-22-4S	TXVH-404A-507-4S	TXVH-404A-507-4S-14F	TXVH-134a-4S	TXVH-3S-IN
	3/8 x 1/2 x 1/4 ODF Sweat	TXVHE-22-4S	TXVHE-404A-507-4S	TXVHE-404A-507-4S-14F	TXVHE-134a-4S	TXVH-3S-IN



Versatility Defined: Universal AC/HP TXV Kit

for R-410A and R-22 Air Conditioning and Heat Pump



- Three outlet connection options:
1/2" ODF Sweat
Aeroquip adaptor
Chatleff adaptor
- Built-in check valve, use either on heat pump or straight cooling applications
- Balanced port design ideal to handle a capacity range
- External superheat adjustment
- Fewer SKUs for more applications

UNIVERSAL AC/HP TXV KIT

Aftermarket Model	Capacity Range	Refrigerant
TXVFE-2-22-Kit	1 to 2 Tons	R-22
TXVFE-3-22-Kit	2.25 to 3 Tons	R-22
TXVFE-4-22-Kit	3.25 to 4 Tons	R-22

Aftermarket Model	Capacity Range	Refrigerant
TXVFE-6-22-Kit	4.25 to 6 Tons	R-22
TXVFE-2-410A-Kit	1 to 2 Tons	R-410A
TXVFE-3-410A-Kit	2.25 to 3 Tons	R-410A
TXVFE-4-410A-Kit	3.25 to 4 Tons	R-410A
TXVFE-5-410A-Kit	4.25 to 5 Tons	R-410A

Note: Connections: 3/8" ODF inch, 1/2" ODF Out Aeroquip and Chetleff adaptors, Equalizer 1/8" OD x 24" with 1/4"SAE flare nut

The Sanhua Universal AC/HP TXV Kit is designed with world-class engineering and manufacturing technology combined with premium materials for superior performance.

MODEL DESIGNATION NOMENCLATURE

TXV F E - 3 - 410A - KIT

MODEL: _____
TXV = Thermal Expansion Valve

TXV Model Series: _____
F= Type "F" TXV (RGFG)
K= Type "K" TXV (RFGK)
D= Type "D" TXV (RFGD)

EXTERNAL EQUALIZER _____

CONNECTIONS:
KIT = Includes ODF Sweat Connections + Adaptors
Chatleff = Chatleff Style Conenctions

REFRIGERANT:
410A = R-410A
22 = R-22

REFRIGERANT
R-22, R-410A

LARGE TEMPERATURE
SERVICE RANGE
-22°F to +275°F
OPD MAX PS
580 psig 650 psig

MRP
670 psig

Additional Larger AC TXV Models for R-410A

Aftermarket Model	Connection, ODF Solder			Capacity Range	Refrigerant
	Inlet	Outlet	Equalizer		
TXVKE-8-410A	5/8"	7/8"	1/4"	5.5 to 8 tons	R-410A
TXVDE-11.5-410A				8.5 to 11.5 tons	
TXVDE-15-410A				12 to 15 tons	



- 5/8" x 7/8" x 1/4" ODF sweat connections
- External superheat adjustment
- Larger capacities for air conditioning applications

Chatleff TXV Connections

- Built-in check valve, use on heat pump or straight cooling applications
- External superheat adjustment
- Drop-in replacement for Chatleff x Chatleff connections

Aftermarket Model	Capacity Range	Refrigerant
TXVFE-2-410A-CHATLEFF	1 to 2 tons	R-410A
TXVFE-3-410A-CHATLEFF	2.25 to 3 tons	R-410A
TXVFE-4-410A-CHATLEFF	3.25 to 4 tons	R-410A
TXVFE-5-410A-CHATLEFF	4.25 to 5 tons	R-410A
TXVFE-6-410A-CHATLEFF	5.25 to 6 tons	R-410A

Note: Connections: Inlet Male Chatleff, Outlet Female Chatleff, Equalizer 1/8" ODx24" with 1/4" Female SAE Flare



REFRIGERANT
R-410A

**LARGE TEMPERATURE
SERVICE RANGE**
-22°F to +275°F
OPD MAX 580 psig
PS 650 psig

MRP
670 psig
PS
650 psig



4-Way Reversing Valve

OVER 50 MILLION UNITS PER YEAR

SANHUA IS THE LEADER IN MANUFACTURING THE WORLD'S MOST RELIABLE REVERSING VALVE

REVERSING VALVE CAPACITY SELECTION TABLE

Aftermarket Model	Nominal Cooling Capacity (tons*)							
	R-407C		R-410A		R-134a		R-404A/R-507	
	Pressure Drop (PSI)							
	1.5	3.0	1.5	3.0	1.5	3.0	1.5	3.0
SHF(L)-4H-23U	0.91	1.31	1.08	1.54	0.74	1.05	0.74	1.05
SHF(L)-7H-34	1.68	2.36	1.96	2.76	1.34	1.88	1.34	1.88
SHF(L)-7H-34U	1.68	2.36	1.96	2.76	1.34	1.88	1.34	1.88
SHF(L)-7H-35	1.68	2.36	1.96	2.76	1.34	1.88	1.34	1.88
SHF-7H-45	1.68	2.36	1.96	2.76	1.34	1.88	1.34	1.88
SHF-9H-45D1-L1	2.10	2.90	2.40	3.40	1.60	2.30	1.60	2.30
SHF(L)-11H-46D1	2.59	3.67	3.04	4.29	2.08	2.93	2.08	2.93
SHF-14-46	3.81	5.37	4.46	6.31	3.04	4.29	3.04	4.29
SHF-14-47	3.81	5.37	4.46	6.31	3.04	4.29	3.04	4.29
SHF-14-56D1	3.81	5.37	4.46	6.31	3.04	4.29	3.04	4.29
SHF-20A-45	5.49	7.76	6.4	9.07	4.38	6.17	4.38	6.17
SHF-20A-56D1	5.49	7.76	6.4	9.07	4.38	6.17	4.38	6.17
SHF-20A-57D1	5.49	7.76	6.4	9.07	4.38	6.17	4.38	6.17
SHF-20D-46-02	5.49	7.76	6.4	9.07	4.38	6.17	4.38	6.17
SHF-35B-47-04	8.47	12.0	9.92	14.0	8.47	9.58	6.77	9.55
SHF-50-911D2	9.72	13.70	14.60	20.60	7.59	10.70	8.31	11.80
SHF(L)-100-1012-01	21.30	30.10	31.90	45.10	16.60	23.50	18.20	25.70

*Condensing temperature 130°F; evaporating temperature +45°F; Superheat and Subcooling temperature 9°F

Reversing Valve Nomenclature

SHF (L) 11 H 4 6 D1 02

Valve Series _____

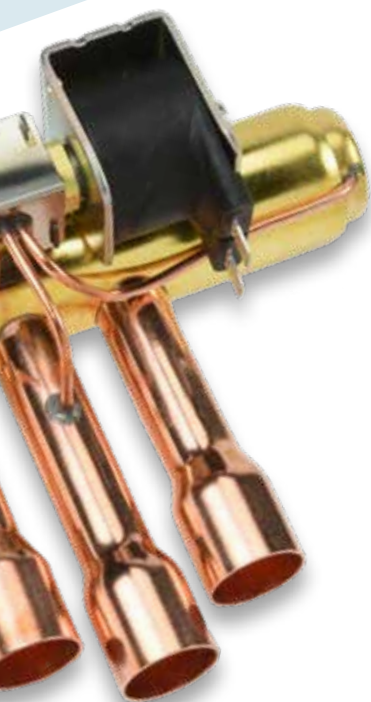
Valve Body and Pilot Materials _____
 (L) = Brass Valve Body and SS Pilot Body
 Omit = Brass Valve and Pilot Bodies

Refrigerant Code
 "D" Connection size
 "E", "S", and "C" connection size
 Nominal Capacity in kW

Slide Material and Use
 Blank = Standard
 L1 = Alternate Slide Material
 01 = PPS/Fixed speed
 02 = PPS/Variable speed
 04 = PPS/Variable speed

Valve Style
 Blank = D tube straight in center location
 U = U shape D tube in center location
 D1 = D tube straight and in line with E
 D2 = D tube straight and in line with C





Solder connection pilot tube and valve for increased reliability



Suitable for capacities from 1-120 tons

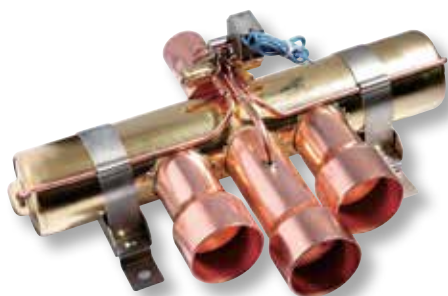


Compatible with all common HCFC and HFC refrigerants

REVERSING VALVE COIL CHARACTERISTICS

Aftermarket Model	Electrical Connection	Rated Voltage	Power Consumption
			AC
			60Hz
			(W)
Coil-SHF-FA4	Spade ¹	24 VAC	5
Coil SHF-FA2	Spade ¹	120 VAC	5
Coil SHF-FA5	Spade ¹	220-240 VAC	5

Note: 1. Wire harness for coil with Faston connector SQ-000000-090028



REFRIGERANT
R-22, R-134a, R-290, R-404A,
R-407C, R-410A, R-507

LARGE TEMPERATURE

OPD MAX
580 psig

SERVICE RANGE

-22°F to +275°F

OPD MAX PS
580 psig 650 psig

PS
650 psig



Systems Requiring a Pressure Control Function

 Single Pole, Double Throw (SDPT) Switch

 Auto or Manual Reset Models

 Durable Bronze Bellows and 1/4" flare connections

 Installation Bracket Supplied with all Models

- MULTIPLE PRESSURE REGULATING RANGES AVAILABLE
- CONVENIENT CAP TUBE/FLARE NUT CONNECTION AVAILABLE



MODELS AVAILABLE

Aftermarket Model	Pressure	Connections
PS01AM-S01	Low pressure, auto reset	Capillary with 1/4" Flare nut
PS01MM-S01	Low pressure, manual reset	Capillary with 1/4" Flare nut
PS50AM-S01	High pressure/Fan control, auto reset	Capillary with 1/4" Flare nut
PS50MM-S01	High pressure, manual reset	Capillary with 1/4" Flare nut
PS15AAM-S01	Dual pressure/Fan control, auto + auto reset	Capillary with 1/4" Flare nut
PS15AMM-S01	Dual pressure, auto + manual reset	Capillary with 1/4" Flare nut
PS01AL-C05	LP, auto reset, 1/4" flare	Flare Connection 7/16-20UNF (1/4in & 6mm)
PS50AL-C05	High pressure/Fan control, auto reset	Flare Connection 7/16-20UNF (1/4in & 6mm)
PS50ML-C05	High pressure, manual reset	Flare Connection 7/16-20UNF (1/4in & 6mm)
PS15AAL-C05	Dual pressure/Fan control, auto + auto reset	Flare Connection 7/16-20UNF (1/4in & 6mm)
PS15AML-C05	Dual pressure, auto + manual reset	Flare Connection 7/16-20UNF (1/4in & 6mm)



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.



MODEL DESIGNATION NOMENCLATURE

<u>P S</u>			<u>1 5</u>	<u>AA</u>	<u>L - S</u>	<u>0 1</u>
MODEL:			CONNECTION UNIT:			
PS = Pressure Control			01 = Certified by TÜV, Rheinland acc. to PED 2014 68/EU, EN12263. The high pressure side is designed with double bellows, providing fail-safe function.			
PRESSURE REGULATING RANGE:			DESIGN TYPE:			
01 =LP: 15 inHg 100 psig			S = Standard			
50 =HP: 85 465 psig			C = Custom			
60 =HP:85 610 psig			CONNECTION TYPE:			
15 =DUAL (LP/HP): LP: 15 inHg 100 psig HP: 85 465 psig			L = 1/4" SAE Flare (male)			
RESET TYPE:			H = 1/4" ODF Sweat			
A = Automatic M = Manual C = Convertible			M = Capillary Tube with 1/4" SAE Flare Nut			
AA = Auto LP/Auto HP AC = Auto LP/Convertible Am/Ma/MM/MC/CA/CM/CC						

REFRIGERANT

R-22, R-134a, R-404A, R-407C,
R-507, R-744, R-407A

LARGE TEMPERATURE SERVICE RANGE

-40°F to +250°F

PS

HP: 500 psig
LP: 240 psig

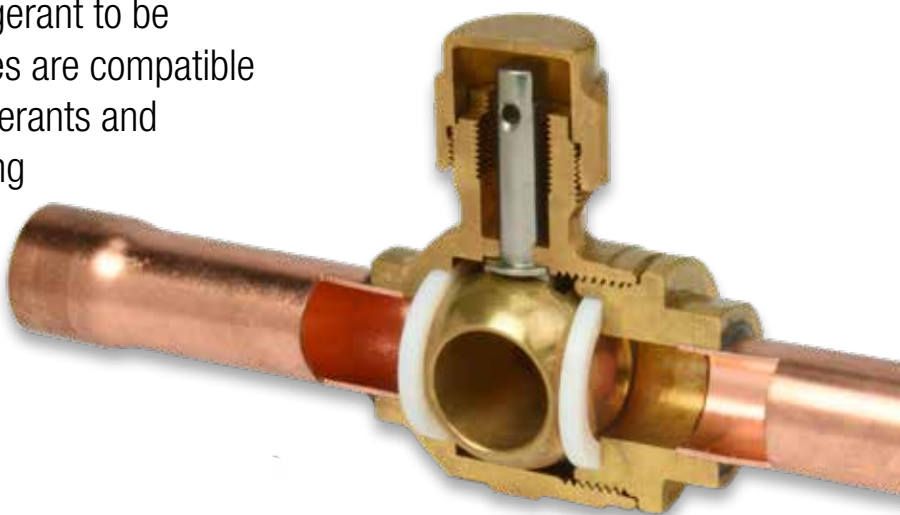


Stop Refrigerant Flow

Access the system with minimal pressure drop

- ALL BALL VALVES ARE FULLY PORTED
- EASY TO OPERATE WITH 1/4 TURN TO OPEN & CLOSE

Sanhua Ball Valves easily and efficiently shut off refrigerant flow and allow for the refrigerant to be isolated when servicing. The Ball Valves are compatible with all common HCFC and HFC refrigerants and are UL listed with a maximum operating pressure of 700 psig.



WITH ACCESS FITTING

Aftermarket Model	Connection	Cv
	(inch)	
With access fitting		
BV-3-S-T	3/8	4.35
BV-4-S-T	1/2	7.74
BV-5-S-T	5/8	9.02
BV-6-S-T	3/4	14.6
BV-7-S-T	7/8	18.9
BV-9-S-T	1-1/8	34.9
BV-11-S-T	1-3/8	54
BV-13-S-T	2-5/8	77.6
BV-17-S-T	2-1/8	174.8
BV-21-S-T	2-5/8	295.7
BV-25-S-T	3-1/8	362

Sanhua ball valves are approved under CRN # 0C23590.5 for all jurisdictions.

	BV	3	S	T	
Ball Valve Model:	_____				System Code: Blank = No access Valve T = Access Valve TC = Access Valve & Insulation
BV = Ball Valve					
Connection Diameter Size:	_____				
Connection Type:	_____				
S = ODF Solder					
FM = Female Flare x Male Flare Connection					

REFRIGERANT
R-22, R-134a, R-290, R-404A,
R-407C, R-410A, R-507 Bi-
directional,
full port

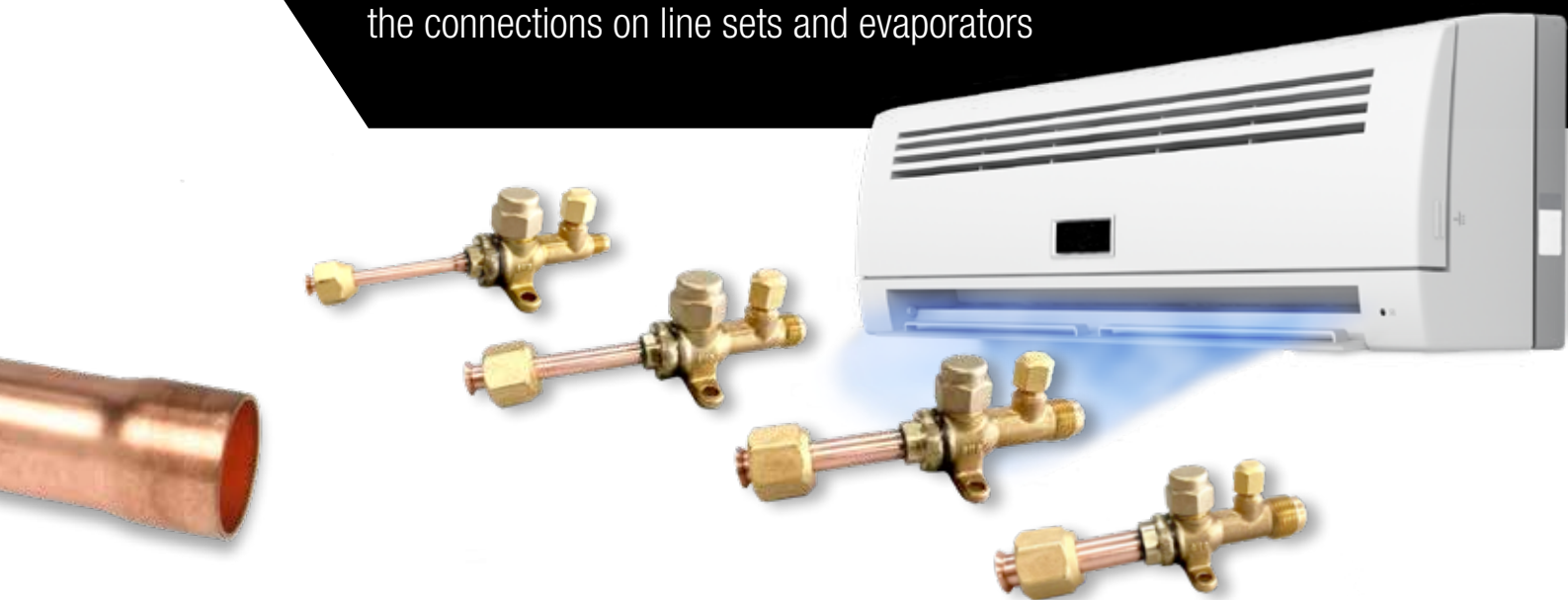
**LARGE TEMPERATURE
SERVICE RANGE**
-40°F to +248°F

PS
700 psig



Isolate the evaporators with Sanhua Ball Valves.

- Saves time & easier on you and your customer when service is needed
- Faster to bring system back to peak performance when there is less guessing about the refrigerant charge
 - Isolate on single and multi-evaporator systems
 - Male flare x female flare swivel designed to match the connections on line sets and evaporators



Male Flare x Female Flare Swivel Design

Aftermarket Model	Connection Type	SAE Flare ød (inch)
BV-2-FM-TC	Flare M x Swivel Nut	1/4
BV-3-FM-TC	Flare M x Swivel Nut	3/8
BV-4-FM-TC	Flare M x Swivel Nut	1/2
BV-5-FM-TC	Flare M x Swivel Nut	5/8

Sanhua ball valves are approved under CRN # OC23590.5 for all jurisdictions.

Hermetic Body Designed to Eliminate Leak Sources



Wide refrigerant temperature range



High maximum opening pressure differential (MOPD)



Low energy consumption coil



Coils are double sealed water tight and safe

SELECTION CRITERIA

Size	Liquid Capacity (tons) ¹⁾						
	R-404A	R-448A	R-407A	R-134a	R-450A	R-22	R-410A
	3 psi P	3 psi P	3 psi P	2 psi P	2 psi P	3 psi P	3 psi P
SoV2	0.54	0.70	0.70	0.61	0.57	0.78	0.75
SoV3	1.16	1.51	1.51	1.32	1.23	1.70	1.63
SoV5	2.23	2.91	2.91	2.54	2.37	3.27	3.14
SoV6	3.57	4.66	4.65	4.06	3.79	5.23	5.02

Suction Vapor Capacity (tons) @ 1 psi P²

Size	R-404A	R-448A	R-407A	R-134a	R-450A	R-22	R-410A
SoV2	0.06	0.06	0.06	0.05	0.05	0.06	0.08
SoV3	0.12	0.13	0.13	0.11	0.10	0.14	0.17
SoV5	0.23	0.26	0.25	0.21	0.19	0.27	0.33



Manual Lift Stem

Discharge Vapor Capacity (tons) @ 2 psi P²

Size	R-404A	R-448A	R-407A	R-134a	R-450A	R-22	R-410A
	3 psi P	3 psi P	3 psi P	2 psi P	2 psi P	3 psi P	3 psi P
SoV2	0.12	0.14	0.14	0.12	0.11	0.14	0.17
SoV3	0.27	0.30	0.29	0.25	0.23	0.30	0.36
SoV5	0.51	0.57	0.57	0.49	0.45	0.57	0.69
SoV6	0.82	0.91	0.90	0.78	0.71	0.91	1.11
SoV9	1.34	1.49	1.47	1.27	1.16	1.49	1.80
SoV10	1.96	2.17	2.15	1.85	1.70	2.17	2.64
SoV15	2.57	2.86	2.83	2.44	2.23	2.86	3.47
SoV19	4.12	4.57	4.52	3.90	3.57	4.57	5.55
SoV25	6.17	6.86	6.78	5.86	5.35	6.86	8.33
SoV35	11.9	13.3	13.1	11.3	10.3	13.3	16.1
SoV43	17.3	19.2	19.0	16.4	15.0	19.2	23.3

Note: Rated in accordance with ANSI/AHRI Standard 760 (I-P)

1. 40°F Evaporator Temperature, 110°F Condenser Temperature, 100°F Liquid Temp.
2. 40°F Evaporator Temperature, 65°F Suction Gas Temperature, 110°F Condenser Temp., Isentropic Compression plus 50°F



Pilot Operated Performance

Direct acting and piston type solenoid valves designed to operate at low pressure differentials on air conditioning and refrigeration systems. In addition to liquid and suction line, they are suitable for discharge application and can tolerate temperatures to 285°F.



Normally Closed w/Manual Lift Stem

Size	Aftermarket Model	Solder Connection ODF (in)
SoV6	SoV6-3-S-M	3/8" ODF
	SoV6-4-S-M	1/2" ODF
SoV9	SoV9-3-S-M	3/8" ODF
	SoV9-4-S-M	1/2" ODF
	SoV9-5-S-M	5/8" ODF

Normally Open

Size	Aftermarket Model ¹⁾	Solder Connection ODF (in)
SoV9	SoV9-3-S-O	3/8" ODF
	SoV10-5-S-O	5/8" ODF
SoV15	SoV15-5-S-O	5/8" ODF
SoV19	SoV19-7-S-O	7/8" ODF
SoV25	SoV25-9-S-O	1-1/8" ODF
SoV35	SoV35-11-S-O	1-3/8" ODF
	SoV43-13-S-O	1-5/8" ODF
	SoV43-17-S-O	2-1/8" ODF

Normally Closed

Size	Aftermarket Model	Solder Connection ODF (in)
SoV3	SoV3-2-S	1/4" ODF
	SoV3-3-S	3/8" ODF
SoV5	SoV5-2-S	1/4" ODF
	SoV5-3-S	3/8" ODF
SoV6	SoV6-3-S	3/8" ODF
	SoV6-4-S	1/2" ODF

Sanhua solenoid valves are approved under CRN # 0C22908.2 for all jurisdictions.

SoV 6 - 3 - S - M

L Omit for Normally Closed
 "M" = Normally Closed w/Manual Lift Stem
 "O" = Normally Open
 (Omit = Standard Configuration)
 Sweat Connections (ODF)
 Connection Sizes in eighths of an inch
 Size Code
 Solenoid Valve

Coils with Junction Box

Operation	Aftermarket Model ¹⁾	Rated Voltage	Supply	Power (W)	Frequency (Hz)	Voltage Tolerance	Insulation Class	Protection Class (w/plug)	Wiring type
Normally Closed	Coil-SoV-024	24	AC	9.0 (50Hz) 8.0 (60Hz)	50/60	-15% to +10%	F	IP67	Lead Wires
	Coil-SoV-120	120							
	Coil-SoV-208-240	208 to 240							
	Coil-SoV-DUAL	120V/208 to 240							
Normally Open	Coil-SoV-024-NO	24							
	Coil-SoV-120-NO	120							
	Coil-SoV-208-240-NO	208-240							

The Main Connection



Ability to handle low pressure drops and environmental conditions



Compatible with all common HCFC and HFC refrigerants



100% Factory Leak Tested



Your Trusted Access Point

Engineered to withstand the elements

Sanhua Service Valves easily and efficiently shut off refrigerant flow and allow for the refrigerant to be isolated when servicing. The Service Valves are compatible with all common

HCFC and HFC refrigerants and are UL certified with a maximum operating pressure of 650 psig.

PRODUCT INFORMATION

Aftermarket Model	Charge Port SAE Flare (inch)
Service-Bar-3-S-T	3/8
Service-Bar-4-S-T	1/2
Service-Bar-5-S-T	5/8
Service-Bar-6-S-T	3/4
Service-Bar-7-S-T	7/8

***Machined with high quality C360
allow brass for high tensile strength***

REFRIGERANT

R-134a, R-404A, R-407C,
R-410A, R-507

LARGE TEMPERATURE SERVICE RANGE

-22°F to +275°F

PS

650 psig



Replaceable Core Filter-Drier

cross - reference



As the largest producer of Service Valves, Reversing Valves, Electronic Expansion Valves and Microchannel (HVACR) in the world, Sanhua has earned the trust of major HVACR brands globally. Quality is the foundation for every product manufactured resulting in world class parts per million numbers. When you want the best, you want Sanhua.

Connections ODF (in.)	Sanhua	Danfoss	Emerson*	Mueller	Sporlan*
		Steel Conn			
5/8"	FDSH-48-5-S	DCR 0485	STAS-485T	A 18583	C-485-G
7/8"	FDSH-48-7-S	DCR 0487	STAS-487T	A 18584	C-487-G
	FDSH-96-7-S	DCR 0967	STAS-967T	A 18589	C-967-G
1-1/8"	FDSH-48-9-S	DCR 0489	STAS-489T	A 18585	C-489-G
	FDSH-96-9-S	DCR 0969	STAS-969T	A 18590	C-969-G
	FDSH-144-9-S	DCR 1449	STAS-1449T	A 18604	C-1449-G
1-3/8"	FDSH-48-11-S	DCR 04811	STAS-4811T	A 18586	C-4811-G
	FDSH-96-11-S	DCR 09611	STAS-9611T	A 18591	C-9611-G
	FDSH-144-11-S	DCR 14411	STAS-14411T	A 18605	C-14411-G
	FDSH-192-11-S	DCR 19211	STAS-19211T	A 18608	C-19211-G
1-5/8"	FDSH-96-13-S	DCR 09613	STAS-9613T	A 18592	C-9613-G
	FDSH-192-13-S	DCR 19213	STAS-19213T	A 18609	C-19213-G
2-1/8"	FDSH-192-17-S	DCR19217	STAS-19217T	A 18610	C-19217-G

Replaceable Cores

cross - reference

* The Sanhua core is a general-purpose core and can be used for all applications. The competitor models with the "HH" indicate a charcoal material is blended in the molded core. The charcoal material was designed into cores many years ago to remove wax contamination, common in systems with R-12 and R-502. Wax is no longer a common contaminant found in systems. The addition of charcoal consumes core area therefore reducing the amount of molecular sieve and activated alumina, which are more important for the reduction of contaminants found in systems today.

	Sanhua	Danfoss	Emerson*	Mueller	Sporlan*
	FD-Core-48	48-DA 48-DC	D-48 H-48 W-48-HH	P 36818	RC-4864 RC-4864-HH
	FD-Core-48HI	48-DM	HX-48 UK-48	P 36819	RCW-48

Sealed Model Filter-Drier | c r o s s - r e f e r e n c e



Connection (in.)		Sanhua	Danfoss		Emerson		Emerson			Parker	Sporlan	
		Core Type*	Standard Core	Hi Moisture Core	Bead Type	Core Type	Loose Bead	Hi Moisture Core	Burnout Core*	Bead or Core Type	Core Type	Burnout Core*
1/4"	SAE Flare	FD-032	DCL 032	DML 032	EK 032	ADK 032				032	C-032	
		FD-052	DCL 052	DML 052	EK 052	ADK 052				052	C-052	C-052-HH
		FD-082	DCL 082	DML 082	EK 082	ADK 082			BOK 082-HH	082	C-082	C-082-HH
		FD-162	DCL 162	DML 162	EK 162	ADK 162				162	C-162	
	ODF Solder	FD-032-S	DCL 032S	DML 032S	EK 032S	ADK 032S	EKZ 032S			032S	C-032-S	
		FD-052-S	DCL 052S	DML 052S	EK 052S	ADK 052S	EKZ 052S			052S	C-052-S	C-052-S-HH
		FD-082-S	DCL 082S	DML 082S	EK 082S	ADK 082S	EKZ 082S		BOK 082S-HH	082S	C-082-S	
3/8"	SAE Flare	FD-053	DCL 053	DML 053	EK 053	ADK 053				053	C-053	
		FD-083	DCL 083	DML 083	EK 083	ADK 083			BOK 083-HH	083	C-083	C-083-HH
		FD-163	DCL 163	DML 163	EK 163	ADK 163			BOK 163-HH	163	C-163	C-163-HH
		FD-303	DCL 303	DML 303	EK 303	ADK 303			BOK 303-HH	303	C-303	C-303-HH
	ODF Solder	FD-033-S	DCL 033S	DML 033S	EK 033S	ADK 033S	EKZ 033S			033S	C-033-S	
		FD-053-S	DCL 053S	DML 053S	EK 053S	ADK 053S	EKZ 053S			053S	C-053-S	
		FD-083-S	DCL 083S	DML 083S	EK 083S	ADK 083S	EKZ 083S		BOK 083S-HH	083S	C-083-S	C-083-S-HH
		FD-163-S	DCL 163S	DML 163S	EK 163S	ADK 163S	EKZ 163S		BOK 163S-HH	163S(-XF)	C-163-S	C-163-S-HH
		FD-303-S	DCL 303S	DML 303S	EK 303S	ADK 303S			BOK 303S-HH	163S	C-303-S	

* The Sanhua core is a general-purpose core and can be used for all applications. The competitor models with the "HH" indicate a charcoal material is blended in the molded core. The charcoal material was designed into cores many years ago to remove wax contamination, common in systems with R-12 and R-502. Wax is no longer a common contaminant found in systems. The addition of charcoal consumes core area therefore reducing the amount of molecular sieve and activated alumina, which are more important for the reduction of contaminants found in systems today.

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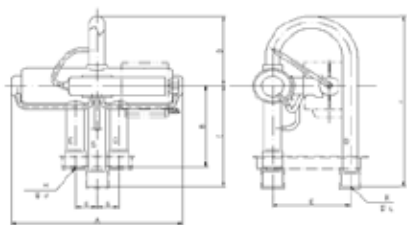
Sealed Model Filter-Drier | Continued

Connection (in.)		Sanhua	Danfoss		Emerson		Emerson			Parker	Sporlan	
		Core Type*	Standard Core	Hi Moisture Core	Bead Type	Core Type	Loose Bead	Hi Moisture Core	Burnout Core*	Bead or Core Type	Core Type	Burnout Core*
1/2"	SAE Flare	FD-164	DCL 164	DML 164	EK 164	ADK 164			BOK 164-HH	164	C-164	C-164-HH
		FD-304	DCL 304	DML 304	EK 304	ADK 304			BOK 304-HH	304	C-304	C-304-HH
		FD-414	DCL 414	DML 414	EK 414	ADK 414			BOK 414-HH		C-414	
	ODF Solder	FD-084-S	DCL 084S	DML 084S	EK 084S	ADK 084S	EKZ 084S			084S	C-084-S	
		FD-164-S	DCL 164S	DML 164S	EK 164S	ADK 164S	EKZ 164S		BOK 164S-HH	164S	C-164-S	C-164-S-HH
		FD-304-S	DCL 304S	DML 304S	EK 304S	ADK 304S			BOK 304S-HH	304S	C-304-S	C-304-S-HH
		FD-414-S	DCL 414S	DML 414S	EK 414S	ADK 414S			BOK 414S-HH		C-414-S	
5/8"	SAE Flare	FD-165	DCL 165	DML 165	EK 165	ADK 165			BOK 165-HH	165	C-165	C-165-HH
		FD-305	DCL 305	DML 305	EK 305	ADK 305			BOK 305-HH	305	C-305	C-305-HH
		FD-415	DCL 415	DML 415	EK 415	ADK 415			BOK 415-HH	415	C-415	C-415-HH
	ODF Solder	FD-165-S	DCL 165S	DML 165S	EK 165S	ADK 165S	EKZ 165S		BOK 165S-HH	165S	C-165-S	C-165-S-HH
		FD-305-S	DCL 305S	DML 305S	EK 305S	ADK 305S	EKZ 305S		BOK 305S-HH	305S	C-305-S	C-305-S-HH
		FD-415-S	DCL 415S	DML 415S	EK 415S	ADK 415S			BOK 415S-HH	415S	C-415-S	
7/8"	ODF Solder	FD-417-S	DCL 417S	DML 417S	EK 417S	ADK 417S	EKZ 417S		BOK 417S-HH	417S	C-417-S	C-417-S-HH
		FD-757-S	DCL 757S	DML 757S	EK 757S	ADK 757S				757S	C-607-S	
1-1/8"	ODF Solder	FD-759-S	DCL 759S	DML 759S	EK 759S	ADK 759S				759S	C-609-S	
Bidirectional Models												
3/8"	SAE Flare	FDBI-083	DCB 083	DMB 083		BFK 083		BFKZ 083		BF083	HPC-083	
		FDBI-163	DCB 163	DMB 163		BFK 163		BFKZ 163		BF163		HPC-163-HH
	ODF Solder	FDBI-083-S	DCB 083S	DMB 083S		BFK 083S		BFKZ 083S		BF083S	HPC-083-S	
		FDBI-163-S	DCB 163S	DMB 163S		BFK 163S		BFKZ 163S		BF163S		HPC-163-S-HH
		FDBI-303-S				BFK 303S		BFKZ 303S				HPC-303-S-HH

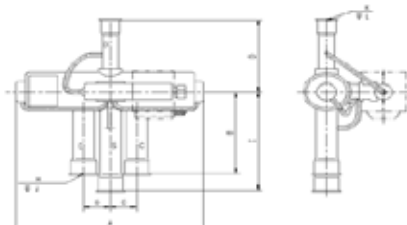
Sealed Model Filter-Drier | Continued

Connection (in.)		Sanhua	Danfoss		Emerson		Emerson			Parker	Sporlan	
		Core Type*	Standard Core	Hi Moisture Core	Bead Type	Core Type	Loose Bead	Hi Moisture Core	Burnout Core*	Bead or Core Type	Core Type	Burnout Core*
Bidirectional Models												
1/2"	SAE Flare	FDBI-084	DCB 084	DMB 084		BFK 084		BFKZ 084		BF084		
		FDBI-164	DCB 164	DMB 164		BFK 164		BFKZ 164		BF164		HPC-164-HH
		FDBI-304	DCB 304	DMB 304		BFK 304						HPC-304-HH
	ODF Solder	FDBI-084-S	DCB 084S	DMB 084S		BFK 084S		BFKZ 084S		BF084S		
		FDBI-164-S	DCB 164S	DMB 164S		BFK 164S		BFKZ 164S		BF164S		HPC-164-S-HH
		FDBI-304-S	DCB 304S	DMB 304S		BFK 304S		BFKZ 304S				HPC-304-S-HH
5/8"	SAE Flare	FDBI-165	DCB 165	DMB 165		BFK 165		BFKZ 165		BF165		HPC-165-HH
	ODF Solder	FDBI-165-S	DCB 165S	DMB 165S		BFK 165S		BFKZ 165S		BF165S		HPC-165-S-HH
		FDBI-305-S	DCB 305S	DMB 305S		BFK 305S		BFKZ 305S				HPC-305-S-HH
7/8"	ODF Solder	FDBI-307-S	DCB 307S	DMB 307S		BFK 307S		BFKZ 307S				HPC-307-S-HH

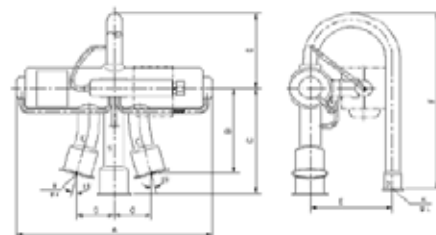
Reversing Valve | Ranco to Sanhua Cross-Reference



Sketch 1

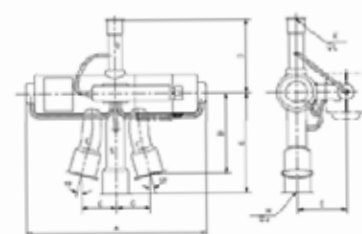


Sketch 2

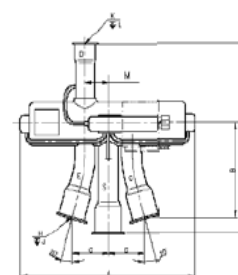


Sketch 3

Brand and Model		Sketch (1 - 5)	Dimensions (in)											
			A	B	C	D	E	F	G	H	J	K	L	M
RANCO	V0-406050-1xx	1	4.06	1.97	2.44	1.59	1.65	-	0.47	0.38	0.38	0.32	0.33	-
SAN-HUA	SHF(L)-4H-23U-L1		3.72	1.97	2.44	1.69	1.69	4.13	0.47	0.38	0.37	0.32	0.33	-
RANCO	V1-406060-2xx	1	5.04	2.32	2.81	2.05	2.07	-	0.63	0.38	0.38	0.38	0.38	-
SAN-HUA	SHF(L)-4H-23U-L1		3.72	1.97	2.44	1.69	1.69	4.13	0.47	0.38	0.37	0.32	0.33	-
RANCO	V2-408060-1xx	2	5.04	2.32	2.81	1.94	-	-	0.63	0.51	0.38	0.38	0.38	-
SAN-HUA	SHF(L)-7H-34-L1		4.45	2.32	2.80	2.05	-	-	0.63	0.50	0.37	0.38	0.39	-
RANCO	V2-408060-2xx	1	5.04	2.32	2.81	2.05	2.07	-	0.63	0.51	0.38	0.38	0.38	-
SAN-HUA	SHF(L)-7H-34U-L1		4.45	2.32	2.80	2.01	2.05	4.69	0.63	0.50	0.37	0.38	0.37	-
RANCO	V2-410060-3xx	4	5.04	2.26	2.81	1.94	1.46	-	0.93	0.63	0.63	0.38	0.38	-
SAN-HUA	SHF(L)-7H-35-L1		4.45	2.24	2.83	2.05	1.34	-	0.93	0.63	0.63	0.38	0.39	-
RANCO	V2-410060-4xx	3	5.04	2.26	2.81	2.05	2.07		0.93	0.63	0.63	0.38	0.38	-
SAN-HUA	SHF(L)-7H-35U-L1		4.45	2.24	2.83	2.01	2.65	4.69	0.93	0.63	0.63	0.38	0.37	-
RANCO	V2-410080-3xx	4	5.04	2.26	2.81	1.94	1.46	-	0.93	0.63	0.63	0.51	0.38	-
SAN-HUA	SHF(L)-7H-45-L1		4.45	2.24	2.83	2.05	1.34	-	0.93	0.63	0.63	0.50	0.39	-
RANCO	V3-410080-7xx	5	5.04	2.38	2.82	1.94	1.46	-	0.95	0.63	0.62	0.51	0.38	0.63
SAN-HUA	SHF(L)-11H-45D1-01		4.61	2.44	2.83	2.05	1.34	-	0.98	0.63	0.67	0.50	0.39	0.63
RANCO	V3-412080-8xx	5	5.04	3.25	3.45	1.94	1.46	-	1.28	0.76	0.75	0.51	0.38	0.63
SAN-HUA	SHF(L)-11H-46D1-01		4.61	3.23	3.43	2.05	1.34	-	1.28	0.76	0.75	0.50	0.39	0.63

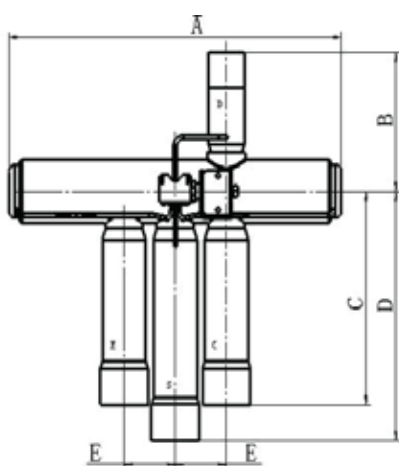
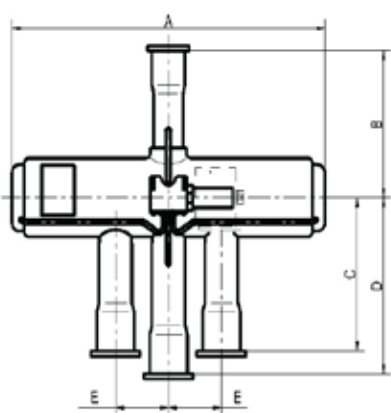
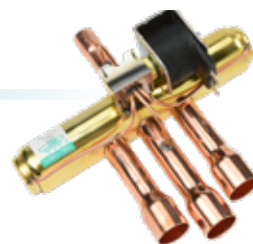


Sketch 4



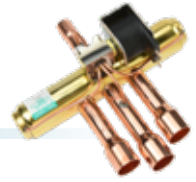
Sketch 5

Reversing Valve | Ranco to Sanhua Cross-Reference



Brand and Model		Sketch (1 or 2)	Dimensions (in)				
			A	B	C	D	E
RANCO	V6-412080-1xx	1	7.83	2.63	3.25	3.75	1.12
SANHUA	SHF-20D-46		7.23	2.64	3.27	3.74	1.13
RANCO	V6-414080-1xx	1	7.83	2.63	3.25	3.75	1.12
SANHUA	SHF-20D-47		7.23	2.64	3.27	3.74	1.13
RANCO	V6-414120-1xx	1	7.83	2.63	3.25	3.75	1.12
SANHUA	SHF-20D-67		7.23	2.64	3.27	3.74	1.13
RANCO	V6-4140K1-1TC	1	7.83	2.63	3.25	3.75	1.12
SANHUA	SHF-20D-57		7.23	2.64	3.27	3.74	1.13
RANCO	V10-414080-1xx	1	8.30	3.22	3.38	3.88	1.32
SANHUA	SHF-35B-47		8.35	3.23	3.43	3.94	1.30
RANCO	V10-414101-2xx	1	8.30	3.22	3.38	3.88	1.32
SANHUA	SHF-35B-57		8.35	3.23	3.43	3.94	1.30
RANCO	V10-414120-1xx	1	8.30	3.22	3.38	3.88	1.32
SANHUA	SHF-35B-67		8.35	3.23	3.43	3.94	1.30
RANCO	V10-414140-4xx	1	8.30	3.22	3.38	3.88	1.32
SANHUA	SHF-35B-77		8.35	3.23	3.43	3.94	1.30
RANCO	V10-418101-1xx	1	8.30	3.22	3.38	3.88	1.32
SANHUA	SHF-35B-59		8.35	3.23	3.43	3.94	1.30
RANCO	V10-418101-2xx	1	8.30	3.22	3.38	3.88	1.32
SANHUA	SHF-35B-59		8.35	3.23	3.43	3.94	1.30
RANCO	V10-418140-1xx	1	8.30	3.22	3.38	3.88	1.32
SANHUA	SHF-35B-79		8.35	3.23	3.43	3.94	1.30
RANCO	V10-418140-1xx	1	8.30	3.22	3.38	3.88	1.32
SANHUA	SHF-35B-79		8.35	3.23	3.43	3.94	1.30
RANCO	V12-4220T0-2xx	2	10.6	3.81	5.90	6.90	1.63
SANHUA	SHF-50-911D2		10.6	3.82	5.87	6.85	1.63

Reversing Valve I c r o s s - r e f e r e n c e

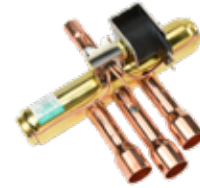


Connections ODF (in.)		Sanhua	Sanhua OEM	Sanhua/Ranco	Danfoss	DunAn	Wilspec
Dis-charge	E - S - C				Saginomiya		
1/4"	3/8"	SHF(L)-4H-23	SHF(L)-4H-23	V1-408060-1xx V1-408061-100	STF-0101G STF-0104G		
		SHF(L)-4H-23U	SHF-4H-23U-xx SHF(L)-4H-23U-xx	V0-406050-1xx V0-406060-2xx V1-406063-200			
3/8"	1/2"	SHF(L)-7H-34	SHF-7H-34-xx SHF(L)-7H-34-xx	V2-408060-1xx V2-408060-2xx V2-408061-1xx			RV101A34AA
		SHF(L)-7H-34U	SHF-7H-34U-xx SHF(L)-7H-34U	V2-406060-200			
3/8"	5/8"	SHF(L)-7H-35	SHF-7H-35-xx SHF(L)-7H-35-xx	V2-410060-3xx V2-410061-3xx		DSF-9R-00	
		SHF(L)-7H-35U	SHF(L)-7H-35U	V2-410060-4xx			
		SHF(L)-9H-35	SHF-9H-35				
		SHF(L)-9H-35U	SHF(L)-9H-35U				
1/2"	1/2"	SHF(L)-11H-44	SHF-11H-44-xx				RV102A44AZ
1/2"	5/8"	SHF-7H-45	SHF-7H-45-xx				
		SHF-7H-45D1	SHF-7H-45D1-xx				
		SHF(L)-9H-45D1-L1	SHF-9H-45D1 SHF(L)-9H-45D1-xx				
		SHF(L)-11H-45D1-L1	SHF(L)-11H-45D1-xx	V3-410080-7xx V3-410081-7xx	STF-0214G STF-0306G	DSF-11B-00	
1/2"	3/4"	SHF(L)-11H-46D1	SHF-11H-46D1 SHF(L)-11H-46-xx	V3-412080-8xx V3-412081-8xx V3-41208A-1xx		DSF-11M-00	RV103A46EA
		SHF-14-46	SHF-14-46				
		SHF-20D-46-02	SHF-20A-46-xx SHF-20D-46-02-xx	V6-412080-1xx V6-412081-1xx V6-41208A-1xx	STF-0401G STF-0404G	DSF-20-00	RV104B46AZ
1/2"	7/8"	SHF-14-47	SHF-14-47				
		SHF-20D-47-02	SHF-20A-47-xx SHF-20D-47-02-xx SHF-20D-47-04	V6-414080-1xx V6-414081-1xx V6-41408A-1xx	STF-0409G STF-0420G	DSF-20K-00 DSF-20Q-00	RV104B47AZ RV106A47AA
		SHF-35B-47-04	SHF-35A-47-xx SHF-35B-47-04-xx	V10-414080-1xx V10-414081-1xx		DSF-34S-00	

Note: "xx" indicates a 1 or 2 digit code may follow the model number.

Continued on next page

Reversing Valve | Continued



Connections ODF (in.)		Sanhua	Sanhua OEM	Sanhua/Ranco	Danfoss	DunAn	Wilspec
Dis-charge	E - S - C				Saginomiya		
1/2"	1-1/8"	SHF-35B-49-04	SHF-35A-49				
5/8"	3/4"	SHF-20D-56		V6-4120K0-2xx			
5/8"	7/8"	SHF-14-57	SHF-14-57				
		SHF-20A-57	SHF-20A-57				
		SHF-20D-57	SHF-20D-57	V6-4140K1-1xx V6-414100-1xx V6-414101-1xx	STF-0413G		
		SHF-35B-57-04	SHF-35A-57	V10-414100-1xx V10-414101-2xx V10-41410A-1xx			
5/8"	1-1/8"	SHF-35B-59-04	SHF-35A-59-xx	V10-418100-1xx V10-418101-2xx			
3/4"	1-1/8"	SHF-35B-69-04	SHF-35A-69	V10-418120-1xx V10-418121-1xx			RV110A69AA
7/8"	7/8"	SHF-35B-77		V10-414140-4xx V10-414141-5xx			
7/8"	1-1/8"	SHF-35B-79-04	SHF-35A-79-xx SHF-35B-79-04	V10-418140-1xx V10-418140-2xx V10-418141-1xx V10-418141-2xx	STF-0715G		
7/8"	1-3/8"	SHF-50-711	SHF-50-711				
1-1/8"	1-3/8"	SHF-50-911D2	SHF-50-911D2 SHF-50S-911D2-01	V12-4220T0-2xx V12-4220T1-2xx	STF-2017G		RV112A911JZ-11
1-1/8"	1-5/8"	SHF(L)-70-913-03	SHF(L)-70-913-03				
1-3/8"	1-5/8"	SHF(L)-100-1113-01	N30C18G				
		SHF(L)-100-1113-03					
1-1/2"	2-1/8"	SHF(L)-175-1217	N50C13G				
1-5/8"	2-5/8"	SHF(L)-350-1721		VH32087a			
Coil Voltage		Sanhua	Sanhua OEM		Sanhua/Ranco		
24/50-60 volt AC		Coil- SHF-FA4	SHF-4-10FA4	SHF-4-10L5	LDK-11xxxx-xxx	LDL-11xxxx-xxx	
120/50-60 volt AC		Coil- SHF-FA2	SHF-4-10FA2	SHF-4-10L4	LDK-31xxxx-xxx	LDL-31xxxx-xxx	
208-240/50-60 volt AC		Coil- SHF-FA5	SHF-4-10FA5	SHF-4-10L3	LDK-41xxxx-xxx	LDL-41xxxx-xxx	

TXV Kits | R - 410 A and R - 22 A C / H P

Universal AC/HP TXV Kit

for R-410A and R-22 Air Conditioning and Heat Pump



- Three outlet connection options:
 - 1/2" ODF Sweat
 - Aeroquip adaptor
 - Chatleff adaptor
- Balanced port design ideal to handle a capacity range
- External superheat adjustment
- Fewer SKUs for more applications

Built-in check valve, use either on heat pump or straight cooling applications

The Sanhua Universal AC/HP TXV Kit is designed with world-class engineering and manufacturing technology combined with premium materials for superior performance.

TECHNICAL DATA

Part Number	Capacity Range	Refrigerant
TXVFE-2-22-Kit	1.00 to 2 Tons	R-22
TXVFE-3-22-Kit	2.25 to 3 Tons	R-22
TXVFE-4-22-Kit	3.25 to 4 Tons	R-22
TXVFE-6-22-Kit	4.25 to 6 Tons	R-22
TXVFE-2-410A-Kit	1.00 to 2 Tons	R-410A
TXVFE-3-410A-Kit	2.25 to 3 Tons	R-410A
TXVFE-4-410A-Kit	3.25 to 4 Tons	R-410A
TXVFE-5-410A-Kit	4.25 to 5 Tons	R-410A



REFRIGERANT
R-22, R-410A

LARGE TEMPERATURE SERVICE RANGE

-22°F to +275°F

OPD MAX PS
580 psig 650 psig

MAX WORKING PRESSURE
650 psig
PS 650 psig

Note:

Connections:
3/8" ODF In
1/2" ODF Out, plus Aeroquip and Chetleff adaptors
Equalizer 1/8" OD x 24" with 1/4" SAE flare nut

TXVH Valve

Step 1:

Select orifice size based on nominal capacity



Step 2:

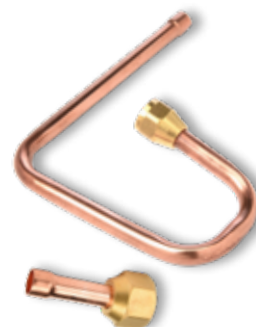
Select body to match refrigerant & connection style desired



Step 3:

SOLDER ADAPTERS

Aftermarket Model	Solder Connection
TXVH-3S-IN	3/8"
TXVH-2S-IN	1/4"
TXVH-3 Loop-IN	3/8"



1. Copper tube and flare nut are included

STEP 1: ORIFICE SELECTION CRITERIA

Orifice Model	Nominal Capacity					
	R-22 R-407A R-407C R-407F		R-404A R-507		R-134a	
	Tons	Bal. Port	Tons	Bal. Port	Tons	Bal. Port
TX-VH-OX	1/5		1/8		1/8	
TXVH-00	1/3	AAA	1/4	AAA	1/5	AAA AAAAAA
TXVH-01	3/4	AA	1/2	AA	1/3	
TXVH-02	1		3/4		1/2	AA
TXVH-03	1-1/2	A	1-1/4	A	3/4	
TXVH-04	2-1/2	B	2	B	1	A
TXVH-05	3-1/2		2-1/2		1-3/4	B
TXVH-06	5	C	3	C	2-1/2	C

STEP 2: SELECT BODY TO MATCH REFRIGERANT AND CONNECTION

Valve Body Configuration Inlet x Outlet x Equalizer		R-22 R-407A R-407C R-407F	R-404A R-507	R-407A R-507 Low Temp (with MOP)	R-134a	Inlet Adaptor
	3/8 x 1/2 SAE Flare (Internally Equalized)	TXVH-22	TXVH-404A-507	TXVH-404A-507-14F	TXVH-134a	Not Required
	3/8 x 1/2 x 1/4 SAE Flare	TXVHE-22	TXVHE-404A-507	TXVHE-404A-507-14F	TXVHE-134a	Not Required
	1/4 x 3/8 ODF Sweat (Internally Equalized)	TXVH-22-3S	TXVH-404A-507-3S	TXVH-404A-507-3S-14F	TXVH-134a-3S	TXVH-2S-IN
	1/4 x 3/8 x 1/4 ODF Sweat	TXVHE-22-3S	TXVHE-404A-507-3S	TXVHE-404A-507-3S-14F	TXVHE-134a-3S	TXVH-2S-IN
	3/8 x 1/2 ODF Sweat (Internally Equalized)	TXVH-22-4S	TXVH-404A-507-4S	TXVH-404A-507-4S-14F	TXVH-134a-4S	TXVH-3S-IN
	3/8 x 1/2 x 1/4 ODF Sweat	TXVHE-22-4S	TXVHE-404A-507-4S	TXVHE-404A-507-4S-14F	TXVHE-134a-4S	TXVH-3S-IN

STEP 3



TXV - Removable Inlet Strainer | c r o s s - r e f e r e n c e

Ref.	Inlet (in)	Outlet (in)	Ext. Eq. (in)	Sanhua				Sporlan		
				Valve Body	Cartridge	Inlet Adaptor	Components	EG	SBF	SR
R-404A R-507	3/8" ODF	1/2" ODF	---	TXVH-404A-507-4S	TXVH-0X	TXVH-3S-IN	TXVH Sweat Body (3 combinations)  Cartridge with Removeable Strainer (7 orifice sizes)  Inlet Sweat Adaptor (1 sizes) 	EGS-1/8-C		
					TXVH-00			EGS-1/6-C EGS-1/4-C	SBFS-AAA-C	
					TXVH-01			EGS-1/2-C	SBFS-AA-C	
			1/4" ODF	TXVHE-404A-507-4S	TXVH-00			EGSE-1/6-C EGSE-1/4-C	SBFSE-AAA-C	SRSE-1/6-C SRSE-1/4-C
					TXVH-01			EGSE-1/6-Z EGSE-1/4-Z	SBFSE-AAA-Z	SRSE-1/6-Z SRSE-1/4-Z
					TXVH-03			EGSE-1/2-C EGSE-1/2-Z	SBFSE-AA-C SBFSE-AA-Z	SRSE-1/2-C SRSE-1/2-Z
					TXVH-04			EGSE-1-C EGSE-1-Z	SBFSE-A-C SBFSE-A-Z	SRSE-1-C SRSE-1-Z
					TXVH-05			EGSE-1-1/2-C EGSE-1-1/2-Z	SBFSE-B-C SBFSE-B-Z	SRSE-1-1/2-C SRSE-1-1/2-Z
					TXVH-06			EGSE-2-C EGSE-2-Z		SRSE-2-C SRSE-2-Z
									SBFSE-C-C SBFSE-C-Z	SRSE-3-C SRSE-3-Z
				TXVHE-404A-507-4S-14F	TXVH-00			EGSE-1/6-ZP EGSE-1/4-ZP	SBFSE-AAA-ZP	SRSE-1/6-ZP SRSE-1/4-ZP
					TXVH-01			EGSE-1/2-ZP	SBFSE-AA-ZP	SRSE-1/2-ZP
					TXVH-03			EGSE-1-ZP	SBFSE-A-ZP	SRSE-1-Z
					TXVH-04			EGSE-1-1/2-ZP	SBFSE-B-ZP	SRSE-1-1/2-ZP
					TXVH-05			EGSE-2-ZP		SRSE-2-ZP
					TXVH-06				SBFSE-C-ZP	SRSE-3-ZP

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TXV - Removable Inlet Strainer | continued

Ref.	Inlet (in.)	Out-let (in.)	Ext. Eq. (in.)	Sanhua				Sporlan		
				Valve Body	Cartridge	Inlet Adaptor	Components	EG	SBF	SR
R-22	3/8" ODF	1/2" ODF	---	TXVH-22-4S	TXVH-00	TXVH-3S-IN	 TXVH Sweat Body (4 combinations)	EGV-1/3-C	SBFV-AAA-C	SRV-1/3-C
								EGV-1/3-Z	SBFV-AAA-Z	SRV-1/3-Z
					TXVH-01			EGV-1/2-C EGV-3/4-C	SBFV-AA-C	SRV-1/2-C
								EGV-1/2-Z EGV-3/4-Z	SBFV-AA-Z	SRV-1/2-Z
					TXVH-02			EGV-1-C		SRV-1-C
								EGV-1-Z		SRV-1-Z
				TXVH-22-4S-14F	TXVH-00			EGV-1/3-ZP	SBFV-AAA-ZP	SRV-1/3-ZP
					TXVH-01			EGV-1/2-ZP EGV-3/4-ZP	SBFV-AA-ZP	SRV-1/2-ZP
					TXVH-02			EGV-1-ZP		SRV-1-ZP
		1/4" ODF		TXVHE-22-4S	TXVH-01		 Cartridge with Removeable Strainer (5 orifice sizes)	EGVE-1/2-C EGVE-3/4-C	SBFVE-AA-C	SRVE-1/2-C
								EGVE-1/2-Z EGVE-3/4-Z	SBFVE-AA-Z	SRVE-1/2-Z
					TXVH-02			EGVE-1-C		SRVE-1-C
								EGVE-1-Z		SRVE-1-Z
					TXVH-03			EGVE-1-1/2-C	SBFVE-A-C	
								EGVE-1-1/2-Z	SBFVE-A-Z	
				TXVHE-22-4S-14F	TXVH-04			EGVE-2-C EGVE-2-1/2-C	SBFVE-B-C	SRVE-2-C
								EGVE-2-Z EGVE-2-1/2-Z	SBFVE-B-Z	SRVE-2-Z
					TXVH-01			EGVE-1/2-ZP EGVE-3/4-ZP	SBFVE-AA-ZP	SRVE-1/2-ZP
					TXVH-02			EGVE-1-ZP		SRVE-1-ZP
					TXVH-03			EGVE-1-1/2-ZP	SBFVE-A-ZP	
					TXVH-04			EGVE-2-ZP EGVE-2-1/2-ZP	SBFVE-B-ZP	SRVE-2-ZP

TXVH Sweat Body (4 combinations)



Cartridge with Removeable Strainer (5 orifice sizes)



Inlet Sweat Adaptor (1 sizes)



TXV - Removable Inlet Strainer | continued

Ref.	Inlet (in.)	Outlet (in.)	Ext. Eq. (in.)	Sanhua				Sporlan		
				Valve Body	Car- tridge	Inlet Adap- tor	Components	EG	SBF	SR
R-134a	3/8" ODF	1/2" ODF	---	TXVH-134a-4S	TXVH-01	TXVH-3S-IN	TXVH Sweat Body (2 combinations)  Cartridge with Removeable Strainer (3 orifice sizes)  Inlet Sweat Adaptor (1 sizes) 			SRJ-1/4-C SRJ-1/4-Z
					TXVH-02				SBFF-AA-C SBFJ-AA-C	
				TXVH-02				SBFF-AA-Z SBFJ-AA-Z		
				TXVHE-134a-4S	TXVH-02				SBFFE-AA-C SBFJE-AA-C	
			TXVH-04					SBFFE-AA-Z SBFJE-AA-Z		
								EGFE-1-C EGJE-1-C	SBFFE-A-C SBFJE-A-C	SRJE-1-C
								EGFE-1-Z EGJE-1-Z	SBFFE-A-Z SBFJE-A-Z	SRJE-1-Z

TXV - ODF Sweat Connections | c r o s s - r e f e r e n c e

Ref.	Inlet (in.)	Out-let (in.)	Ext. Eq. (in.)	Sanhua				Sporlan		
				Valve Body	Cartridge	Inlet Adaptor	Components	EF	EBF	ER
R-404A R-507	1/4" ODF	3/8" ODF	---	TXVH-404A-507-3S	TXVH-00	TXVH-2S-IN	TXVH Sweat Body (7 combinations) 	EFSE-1/4-C		ERS-1/4-C
					TXVH-01				EBFS-AA-C	
					TXVH-03			EFSE-1-C	EBFS-A-C	ERS-1-C
		1/2" ODF	---	TXVH-404A-507-4S	TXVH-00			EFSE-1/4-C		ERS-1/4-C
					TXVH-01				EBFS-AA-C	
		1/2" ODF	1/4" ODF	TXVHE-404A-507-4S	TXVH-01		Cartridge (6 orifice sizes) 	EFSE-1/2-C		ERSE-1/2-C
								EFSE-1/2-Z		ERSE-1/2-Z
				TXVHE-404A-507-4S-14F	TXVH-01			EFSE-1/2-ZP		ERSE-1/2-ZP
	3/8" ODF	1/2" ODF	1/4" ODF	TXVHE-404A-507-4S	TXVH-01	TXVH-3S-IN	Inlet Sweat Adaptor (2 sizes) 	EFSE-1/2-C		ERSE-1/2-C
								EFSE-1/2-Z		ERSE-1/2-Z
					TXVH-03			EFSE-1-C	EBFSE-A-C	ERSE-1-C
								EFSE-1-Z	EBFSE-A-Z	ERSE-1-Z
					TXVH-04			EFSE-1-1/2-C	EBFSE-B-C	ERSE-1-1/2-C
								EFSE-1-1/2-Z	EBFSE-B-Z	ERSE-1-1/2-Z
				TXVHE-404A-507-4S-14F	TXVH-01			EFSE-1/2-ZP		ERSE-1/2-ZP
					TXVH-03			EFSE-1-ZP	EBFSE-A-ZP	ERSE-1-ZP
					TXVH-04			EFSE-1-1/2-ZP	EBFSE-B-ZP	ERSE-1-1/2-ZP

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TXV - ODF Sweat Connections *continued*



Ref.	Inlet (in.)	Out- let (in.)	Ext. Eq. (in.)	Sanhua				Sporlan						
				Valve Body	Car- tridge	Inlet Adaptor	Components	EF	EBF	ER				
R-22	1/4" ODF	3/8" ODF	---	TXVH-22-3S	TXVH-00	TXVH-2S- IN	TXVH Sweat Body (7 combinations)	EFV-1/4-C	EBFV-AAA-C	ERV-1/3				
		1/2" ODF	---	TXVH-22-4S	TXVH-00			EFV-1/4-C	EBFV-AAA-C	ERV-1/3				
			1/4" ODF	TXVHE-22-4S	TXVH-01			EFVE-1/2-C	EBFVE-AA-C	ERVE- 1/2-C				
					TXVH-02			EFVE-1-C		ERVE-1-C				
			3/8" ODF	1/2" ODF	---			TXVH-22-4S	TXVH-00	TXVH-3S- IN	Cartridge (6 orifice sizes)	EFV-1/4-C	EBFV-AAA-C	ERV-1/3
		TXVH-01					EFV-1/2-C		EBFV-AA-C			ERV-1/2		
	1/4" ODF	TXVHE-22-4S				TXVH-01		EFVE-1/2-C	EBFVE-AA-C			ERVE- 1/2-C		
					TXVH-02	EFVE-1-C			ERVE-1-C					
					TXVH-03	EFVE-1- 1/2-C		EBFVE-A-C	ERVE-1- 1/2-C					
					TXVH-04	EFVE-2-C		EBFVE-B-C	ERVE-2-C					
					TXVH-05				Inlet Sweat Adaptor (2 sizes)		EFVE-3-C		ERVE-3-C	
														

Continued on next page

TXV - ODF Sweat Connections | c o n t i n u e d



Ref.	Inlet (in.)	Outlet (in.)	Ext. Eq. (in.)	Sanhua				Sporlan		
				Valve Body	Cartridge	Inlet Adaptor	Components	EF	EBF	ER
R-134a	1/4" ODF	1/2" ODF	---	TXVH-134a-4S	TXVH-00	TXVH-2S-IN	TXVH Sweat Body (2 combinations) 			ERJ-1/6-C
					TXVH-01			EFF-1/4-C EFJ-1/4-C		
					TXVH-02			EFF-1/2-C EFJ-1/2-C		ERJ-1/2-C
			1/4" ODF	TXVHE-134a-4S	TXVH-02		Cartridge (4 orifice sizes) 	EF- FE-1/2-C EFJE-1/2-C		ER- JE-1/2-C
										ERJ-1/4-C
									EBFF-AA-C EBFJ-AA-C	
	3/8" ODF	1/2" ODF	---	TXVH-134a-4S	TXVH-01		Inlet Sweat Adaptor (2 sizes) 			
					TXVH-02					
			1/4" ODF	TXVHE-134a-4S	TXVH-04			EFJE-1-C EFJE-1-C	EBFFE-A-C EBFJE-A-C	ERJE-1-C

Continued on next page

TXV - SAE Flare Connections | c r o s s - r e f e r e n c e

Ref.	Inlet (in)	Outlet (in)	Ext. Eq. (in)	Sanhua			Sporlan			
				Valve Body	Cartridge	Components	G	F	BF	R
R-404A R-507	1/4" SAE	1/2" SAE	---	TXVH-404A-507 (3/8" SAE Inlet)	TXVH-00	TXVH SAE Flare Body (6 combinations)	GS-1/4-C	FS-1/4-C		RS-1/4-C
					TXVH-01		GS-1/4-Z	FS-1/4-Z		RS-1/4-Z
				TXVH-404A-507-14F (3/8" SAE Inlet)	TXVH-00		GS-1/2-C	FS-1/2-C	BFS-AA-C	RS-1/2-C
					TXVH-01		GS-1/2-Z	FS-1/2-Z	BFS-AA-Z	RS-1/2-Z
			1/4" SAE	TXVHE-404A-507 (3/8" SAE Inlet)	TXVH-01		GS-1/4-ZP	FS-1/4-ZP		RS-1/4-ZP
				TXVHE-404A-507-14F (3/8" SAE Inlet)	TXVH-01		GS-1/2-ZP	FS-1/2-ZP	BFS-AA-ZP	RS-1/2-ZP
	3/8" SAE	1/2" SAE	1/4" SAE	TXVHE-404A-507	TXVH-03	Catridge (5 office sizes)	GSE-1/2-C	FSE-1/2-C	BFSE-AA-C	RSE-1/2-C
					TXVH-04		GSE-1/2-Z	FSE-1/2-Z	BFSE-AA-Z	RSE-1/2-Z
				TXVHE-404A-507-14F	TXVH-03		GSE-1/2-ZP	FSE-1/2-ZP	BFSE-AA-ZP	RSE-1/2-ZP
					TXVH-04		GSE-1-C	FSE-1-C	BFSE-A-C	RSE-1-C
				TXVHE-404A-507-14F	TXVH-03		GSE-1-Z	FSE-1-Z	BFSE-A-Z	RSE-1-Z
					TXVH-04		GSE-1-1/2-C	FSE-1-1/2-C	BFSE-B-C	RSE-1-1/2-C
R-22	1/4" SAE	1/2" SAE	---	TXVH-22 (3/8" SAE Inlet)	TXVH-00		GSE-1-1/2-Z	FSE-1-1/2-Z	BFSE-B-Z	RSE-1-1/2-Z
					TXVH-01		GSE-1-ZP	FSE-1-ZP	BFSE-A-ZP	RSE-1-ZP
			1/4" SAE	TXVHE-22 (3/8" SAE Inlet)	TXVH-01		GSE-1-1/2-ZP	FSE-1-1/2-ZP	BFSE-B-ZP	RSE-1-1/2-ZP
				TXVHE-22 (3/8" SAE Inlet)	TXVH-02		GV-1/4-C	FV-1/4-C	BFV-AAA-C	RV-1/3-C
			---	TXVH-22	TXVH-01		GV-1/2-C	FV-1/2-C	BFV-AA-C	RV-1/2-C
					TXVH-02		GVE-1/2-C	FVE-1/2-C	BFVE-AA-C	RVE-1/2-C
	3/8" SAE	1/2" SAE	1/4" SAE	TXVH-22	TXVH-03		GVE-1-C	FVE-1-C		RVE-1-C
					TXVH-01		GV-1/2-C	FV-1/2-C	BFV-AA-C	RV-1/2-C
				TXVHE-22	TXVH-02		GV-1-C	FV-1-C		RV-1-C
					TXVH-03		GV-1-1/2-C	FV-1-1/2-C	BFV-A-C	RV-1-1/2-C
				TXVHE-22	TXVH-01		GVE-1/2-C	FVE-1/2-C	BFVE-AA-C	RVE-1/2-C
					TXVH-02		GVE-1-C	FVE-1-C		RVE-1-C
	3/8" SAE	1/2" SAE	1/4" SAE	TXVH-22	TXVH-03		GVE-1-1/2-C	FVE-1-1/2-C	BFVE-A-C	RVE-1-1/2-C
					TXVH-04		GVE-2-C	FVE-2-C	BFVE-B-C	RVE-2-C

TXV - SAE Flare Connections | c o n t i n u e d



Ref.	Inlet (in)	Outlet (in)	Ext. Eq. (in)	Sanhua			Sporlan			
				Valve Body	Cartridge	Components	G	F	BF	R
R-134a	1/4 SAE	1/2 SAE	--	TXVH-134a (3/8 SAE Inlet)	TXVH-02					
					TXVH-03		GF-1/2-C GJ-1/2-C	FF-1/2-C FJ-1/2-C	BFFE-AA-C BFJE-AA-C	RJ-1/2-C
			1/4 SAE	TXVHE-134a	TXVH-03		GFE-1/2-C GJE-1/2-C	FFE-1/2-C FJE-1/2-C	BFF-AA-C BFJ-AA-C	RJE-1/2-C
	3/8 SAE	1/2 SAE	--	TXVH-134a	TXVH-03		GF-1/2-C GJ-1/2-C	FF-1/2-C FJ-1/2-C	BFF-AA-C BFJ-AA-C	RJ-1/2-C
					TXVH-04		GF-1-C GJ-1-C	FF-1-C FJ-1-C	BFF-A-C BFJ-A-C	RJ-1-C
			1/4 SAE	TXVHE-134a	TXVH-03		GFE-1/2-C GJE-1/2-C	FFE-1/2-C FJE-1/2-C	BFFE-AA-C BFJE-AA-C	RJE-1/2-C
					TXVH-04		GFE-1-C GJE-1-C	FFE-1-C FJE-1-C	BFFE-A-C BFJE-A-C	RJE-1-C
					TXVH-05		GFE-1-1/2-C GJE-1-1/2-C	FFE-1-1/2-C FJE-1-1/2-C		RJE-1-1/2-C

Ball Valve | c r o s s - r e f e r e n c e



Conne- ction ODF (in.)	Ac- cess	Sanhua	JB Industries		Apollo	Emerson	Henry	Mueller	Sporlan	Superior
	Valve		Standard	E-Line						
3/8	No	BV-3-S	V34200	V34300	79-701-01	BVE 038	907203	AP17860C	EBV-1030	586WA-6ST
	Yes	BV-3-S-T	V34400	V34500		BVS 038	937203	AQ17860C	EBVT-1030	586WAS-6ST
1/2	No	BV-4-S	V34201	V34301	79-702-01	BVE 012	907204	AP17861C	EBV-1040	586WA-8ST
	Yes	BV-4-S-T	V34401	V34501		BVS 012	937204	AQ17861C	EBVT-1040	586WAS-8ST
5/8	No	BV-5-S	V34202	V34302	79-703-01	BVE 058	907205	AP17862C	EBV-1050	586WA-10ST
	Yes	BV-5-S-T	V34402	V34502		BVS 058	937205	AQ17862C	EBVT-1050	586WAS-10ST
3/4	No	BV-6-S	V34203	V34303		BVE 034	907306	AP17863	EBV-1060	587WA-12ST
	Yes	BV-6-S-T		V34503		BVS 034	937306	AQ17863	EBVT-1060	
7/8	No	BV-7-S	V34204	V34304	79-704-01	BVE 078	907307	AP17864C	EBV-1070	587WA-14ST
	Yes	BV-7-S-T	V34404	V34504		BVS 078	937307	AQ17864C	EBVT-1070	587WAS-14ST
1 1/8	No	BV-9-S	V34206	V34306	79-705-01	BVE 118	907409	AP17865	EBV-1090	591WA-11ST
	Yes	BV-9-S-T	V34406	V34506		BVS 118	937409	AQ17865	EBVT-1090	591WAS-11ST
1 3/8	No	BV-11-S	V34207	V34307	79-706-01	BVE 138	907511	A17866	EBV-1110	592WA-13ST
	Yes	BV-11-S-T	V34407	V34507		BVS 138	937511	AC17866	EBVT-1110	592WAS-13ST
1 5/8	No	BV-13-S	V34208	V34308	79-707-01	BVE 158	907613	A17867	EBV-1130	593WA-15ST
	Yes	BV-13-S-T	V34408	V34508		BVS 158	937613	AC17867	EBVT-1130	593WAS-15ST

* Reduced Port

Sanhua ball valves are approved under CRN # 0C23590.5 for all jurisdictions

Ball Valve | continued



Con- nection ODF (in.)	Ac- cess	Sanhua	JB Industries		Apollo	Emerson	Henry	Mueller	Sporlan	Superior
	Valve		Standard	E-Line						
2 1/8	No	BV-17-S	V34209	V34309	79-708-01	BVE 218	907617	A17868	EBV-1170	594WA-21ST
	Yes	BV-17-S-T	V34409	V34509		BVS 218	937617	AC17868	EBVT-1170	594WAS-21ST
2 5/8	No	BV-21-S	V34210	V34310	79-709-01	BVE 258 *		A17869	EBV-1210	594WA-25ST *
								A17871 *	EBV-2210 *	595WA-25ST
	Yes	BV-21-S-T		V34510		BVS 258 *	937721 *	AC17869	EBVT-1210	595WAS-25ST
3 1/8	No	BV-25-S	V34211 *	V34311 *	79-600-01 *	BVE 318 *	907825FP	A17870	EBV-1250	594WA-31ST *
								A17872 *	EBV-2250 *	596WA-31ST
	Yes	BV-25-S-T		V34511 *		BVS 318 *	937725 *	AC17870	EBVT-1250	596WAS-31ST
3 5/8	No									596WA-35ST *
	Yes	BV-29-S-T						B34909 *		
4 1/8	No									596WA-41ST *
	Yes	BV-33-S-T						B34910 *		

* Reduced Port

Sanhua ball valves are approved under CRN # OC23590.5 for all jurisdictions

Solenoid Valves | c r o s s - r e f e r e n c e



Conn. ODF (in.)	Sanhua	Sporlan		Emerson		Parker	Danfoss		
		Standard	R-410A	Standard	R-410A				
1/4"	SoV3-2-S	E3S120		100RB2S2		R16E32	EVR3 (032F7105)	EVU 3 (032F9525) EVU 3 (032F5024)	EVUL 3 (032F9511) EVUL 3 (032F8202)
3/8"	SoV3-3-S	E3S130		100RB2S3		R16E33	EVR3 (032F1157)	EVU 3 (032F5111) EVU 3 (032F5026)	EVUL 3 (032F8203)
	SoV6-3-S	E6S130	E6S130-HP	200RB3T3	200RD3T3		EVR6 (032F7115)	EVU 6 (032F9527) EVU 6 (032F5046)	EVUL 6 (032F8209)
1/2"	SoV6-4-S	E6S140	E6S140-HP	200RB3T4	200RD3T4		EVR6 (032F1162)	EVU 6 (032F9528) EVU 6 (032F5049)	EVUL 6 (032F9514) EVUL 6 (032F8210)
	SoV9-4-S	E9S240	E9S240-HP	200RB4T4 200RB5T4	200RD4T4 200RD5T4		EVR8 (032F7121)		
	SoV10-4-S	E10S240	E10S140-HP E10S240-HP	200RB6T4	200RD6T4		EVR10 (032F1166)		
5/8"	SoV10-5-S	E10S250	E10S150-HP E10S250-HP	200RB6S5 200RB6T5	200RD6T5		EVR10 (032F1168)		
	SoV15-5-S	E14S250	E14S250-HP	200RB7T5	200RD7T5		EVR15 (032F1171)		
7/8"	SoV15-7-S	E14S270	E14S270-HP	200RB7T7	200RD7T7		EVR15 (032F7130)		
	SoV20-7-S	E19S270	E19S270-HP	200RB9T7	200RD9T7		EVR20 (032F1176)		
	SoV22-7-S	E25S270	E25S270-HP	200RB12T7	200RD12T7				

Sanhua solenoid valves are approved under # OC22908.2 for all jurisdictions.

Solenoid Valves | c o n t i n u e d



Conn. ODF (in.)	Sanhua	Sporlan		Emerson		Parker	Danfoss		
		Standard	R-410A	Standard	R-410A				
7/8"	SoV15-7-S	E14S270	E14S270-HP	200RB7T7	200RD7T7		EVR15 (032F7130)		
	SoV20-7-S	E19S270	E19S270-HP	200RB9T7	200RD9T7		EVR20 (032F1176)		
	SoV22-7-S	E25S270	E25S270-HP	200RB12T7	200RD12T7				
1-1/8"	SoV20-9-S	E19S290	E19S290-HP	200RB9T9	200RD9T9				
	SoV22-9-S	E25S290	E25S290-HP	200RB12T9	200RD12T9		EVR22 (032F7145)		
1-3/8"	SoV22-11-S	E25S2110	E25S2110-HP				EVR22 (032F7146)		
Solenoid Valves with Manual Lift Stem									
3/8"	SoV6-3-S-M	ME6S130	ME6S130-HP	200RB3T3M	200RD3T3M	R26E63M	EVR6 (032F7116)		
1/2"	SoV6-4-S-M	ME6S140	ME6S140-HP	200RB3T4M	200RD3T4M		EVR6 (032F7144)		
	SoV10-4-S-M	ME10S240	ME10S240-HP	200RB6T4M	200RD6T4M	R36E104M	EVR10 (032F1188)		
5/8"	SoV10-5-S-M	ME10S250	ME10S250-HP	200RB6S5M 200RB6T5M	200RD6T5M	R36E105M	EVR10 (032F7149)		
	SoV15-5-S-M	ME14S250	ME14S250-HP	200RB7T5M	200RD7T5M	R38E145M	EVR15 (032F1172)		
7/8"	SoV20-7-S-M	ME19S270	ME19S270-HP	200RB9T7M	200RD9T7M	R42E197M	EVR20 (032F1177)		
1-1/8"	SoV22-9-S-M	ME25S290	ME25S290-HP	200RB12T9M	200RD12T9M	R46E259M	EVR22 (032F7137)		

Sanhua solenoid valves are approved under # OC22908.2 for all jurisdictions.

Sight Glass/Moisture Indicator l c r o s s - r e f e r e n c e



Connection (in.)		Sanhua	Danfoss			Emerson		Muel- ler	Parker	Sporlan	
		Aftermar- ket	CFC/HCFC Ind.	HFC Indi- cator	R-410A Indica- tor	Stan- dard Ind.	Hi Ac- curacy Ind.			Stan- dard	Cop- per Conn.
1/4	Male SAE Flare	SG-2	SGI 6	SGN 6	SGH 6	AMI-1MM2	HMI-1MM2	A 18101	PSG-2	SA-12	
	Female x Male SAE Flare	SG-2-FM	SGI 6 (FM)	SGN 6 (FM)		AMI-1FM2	HMI-1FM2	A 18106	PSG-2MF	SA-12FM	
	ODF Solder	SG-2-S	SGI 6s	SGN 6s	SGH 6s	AMI-1TT2	HMI-1TT2	A 18114	PSG-2S	SA-12S	SA-K142
3/8	Male SAE Flare	SG-3	SGI 10	SGN 10		AMI-1MM3	HMI-1MM3	A 18102	PSG-3	SA-13	
	Female x Male SAE Flare	SG-3-FM	SGI 10 (FM)	SGN 10 (FM)		AMI-1FM3	HMI-1FM3	A 18107	PSG-3MF	SA-13FM	
	ODF Solder	SG-3-S	SGI 10s	SGN 10s	SGH 10s	AMI-1TT3	HMI-1TT3	A 18115	PSG-3S	SA-13S	SA-K143
1/2	Male SAE Flare	SG-4	SGI 12	SGN 12		AMI-1MM4	HMI-1MM4	A 18103	PSG-4	SA-14	
	Female x Male SAE Flare	SG-4-FM	SGI 12 (FM)	SGN 12 (FM)		AMI-1FM4	HMI-1FM4	A 18108	PSG-4MF	SA-14FM	
	ODF Solder	SG-4-S	SGI 12s	SGN 12s	SGH 12s	AMI-1TT4	HMI-1TT4	A 18116	PSG-4S	SA-14S	SA-K144
5/8	ODF Solder	SG-5-S	SGI 16s	SGN 16s	SGH 16s	AMI-1TT5	HMI-1TT5	A 18117	PSG-5S	SA-15S	SA-K145
7/8	ODF Solder	SG-7-S	SGI 22s	SGN 22s	SGH 22s	AMI-1TT7	HMI-1TT7	A 18119	PSG-7S	SA-17S	SA-K147
1 1/8	ODF Solder	SG-9-S				AMI-1TT9	HMI-1TT9	A 18120	PSG-9S	SA-19S	

PS - Pressure Controls



Style	Reset	Sanhua	Danfoss	Johnson Controls	Ranco
Low Pressure	Auto Reset	PS01AM-S01	060-523300 606-523700 060-523500	P70AB-2C	010-1402 010-1483
	Manual Reset	PS01MM-S01			
High Pressure	Auto Reset	PS50AM-S01	060-524100 060-524200 060-524300 060-524500		016-108 010-2054
	Manual Reset	PS50MM-S01	060-524600		
Dual Pressure	Auto Reset	PS15AAM-S01	060-524700 060-524800 060-525300 060-525400	P70LB-1C	012-1549 012-4834 012-1506
	Manual Reset	PS15MM-S01	060-524900 060-525000	P70MA-1C	

PS - Fan Cycle Controllers

Style	Reset	Sanhua	Danfoss	Johnson Controls	Ranco
High Pressure	Auto Reset	PS50AM-S01	060-524300 060-524500		
	Manual Reset	PS50MM-S01	060-524600		