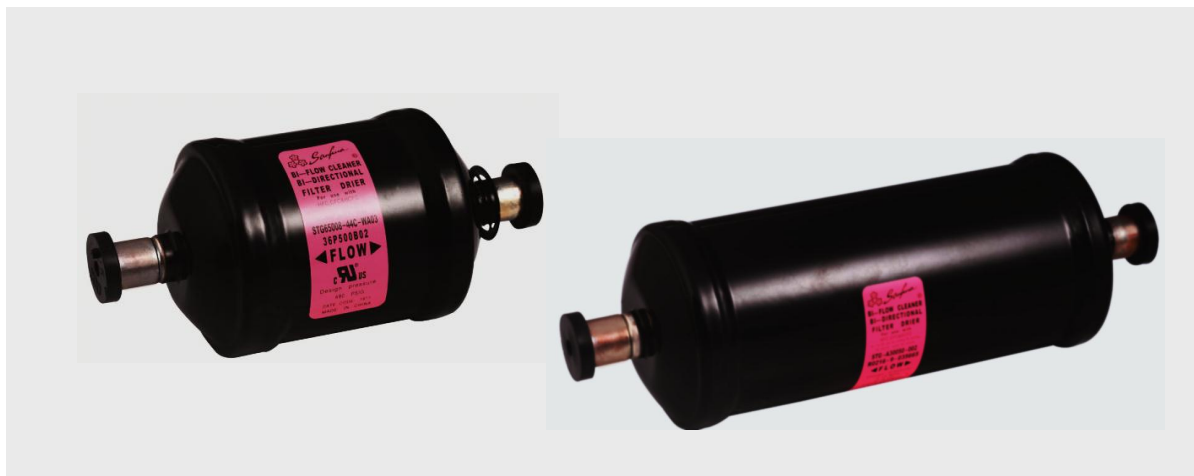


## Bi-Flow Filter Driers Series STG for R32



### Features

- Highly efficient in moisture absorption, filtering impurity, paint remains and mud removal
- 100% 3Å desiccant
- Durable and solid filter cores
- Filtering fineness: 20µm
- Corrosion resistant painting can survive salt spray test of 500 hours
- Connection type: solder

### General Specification

- Applicable for refrigerants such as R32
- Ambient temperature min./max.: -30°C / +55°
- Medium temperature TS min./max.: -30°C / +120°C
- Max. operating pressure PS: 4,9 MPa (49 bar) - 711 PSIG
- Installation position: preferably installed in liquid line
- Certifications: UL/CSA and PED declaration (all products have been covered by Art.4.3 PED Directive 2014/68/EU)

## Technical Parameters

### Desiccant Selection Table:

	Medium type	100% 3Å desiccant
<b>Refrigerant</b>	R32	Applicable
<b>Oil</b>	Mineral oil or AB	Applicable
	Pure POE or PAG	Applicable
	POE or PAG with additive	Applicable

Pos. No.	Model Designation Legend		
1	<b>Product Code</b>	<b>Filter Drier Series</b>	
	STG	Indicates bidirectional filter drier	
2	<b>Filter Core</b>	<b>Structure and Material</b>	
	B	Solid core, 100%3Å desiccant	
3	<b>Internal Volume</b>	<b>Expressed in [inch<sup>3</sup>]</b>	<b>Expressed in [cm<sup>3</sup>]</b>
	05	5	82
	08	8	131
	16	16	262
	30	30	492
4	<b>Connection Size</b>	<b>Pos. 5 shows "0": Solder [inch]</b>	
	02	1/4	
	03	3/8	
	04	1/2	
	05	5/8	
	07	7/8	
	09	1 1/8	
	<b>Connection Size</b>	<b>Pos. 5 shows "1": Solder [mm]</b>	
	06	6	
	10	10	
	12	12	
	(16) *	(5/8" version can be used e.g. STG-B16 <b>050</b> )	
	(22) *	(7/8" version can be used e.g. STG-B16 <b>070</b> )	
	28	28	
5	<b>Pipe Connection</b>	<b>Type</b>	
	0	Solder with inch connections	
	1*	Solder with metric connections	
6	<b>Version Number</b>	<b>Description</b>	
	901	Standard product	

Note: \* Solder connections which fit to metric and inch are marked with inch product codes e.g. 16 and 22 mm

### Model Designation Example:

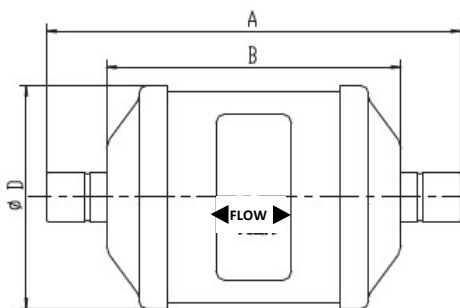
Position Number						According to Model Designation Legend
1	2	3	4	5	6	
<b>STG</b>	B	05	06	1	932	Bidirectional filter drier
STG	<b>B</b>	05	06	1	932	Solid filter core with 100% 3Å desiccant
STG	B	<b>05</b>	06	1	932	5 inch <sup>3</sup> internal volume
STG	B	05	<b>06</b>	1	932	When Pos. 5 is "1": connection size 6 mm
STG	B	05	06	<b>1</b>	932	Solder connection metric
STG	B	05	06	1	<b>932</b>	Standard product for R32 (MOP 49 bar)

## General Characteristics of STG-B Filter - Solder Connection

Filter	Model [inch]	Part Number (multi package) <sup>1)</sup> [inch]	Model [mm]	Part Number (multi package) <sup>1)</sup> [mm]	Nominal Volume		Connection		Dimensions & Weight <sup>2)</sup>				PED Category <sup>3)</sup> Fluid Group 1
							Solder		ØD	B	A	Weight	
					[inch <sup>3</sup> ]	[cm <sup>3</sup> ]	[inch]	[mm]	[mm]	[mm]	[mm]	[g]	
STGB052s	STG-B05020-932	10235019502	STG-B05061-932	10235020602	5	82	1/4	6	69	76	114	450	Art. 4.3
STGB053s	STG-B05030-932	10235019602	STG-B05101-932	10235020702	5	82	3/8	10	69	76	114	450	Art. 4.3
STGB054s	STG-B05040-932	10235019702	STG-B05121-932	10235020802	5	82	1/2	12	69	76	124	450	Art. 4.3
STGB083s	STG-B08030-932	10235019802	STG-B08101-932	10235020902	8	131	3/8	10	69	98	136	580	Art. 4.3
STGB084s	STG-B08040-932	10235019902	STG-B08121-932	10235021002	8	131	1/2	12	69	98	146	580	Art. 4.3
STGB163s	STG-B16030-932	10235020002	STG-B16101-932	10235021102	16	262	3/8	10	81	118	156	900	Art. 4.3
STGB164s	STG-B16040-932	10235020102	STG-B16121-932	10235021202	16	262	1/2	12	81	118	166	900	Art. 4.3
STGB165s	STG-B16050-932	10235019302	STG-B16050-932	10235019302	16	262	5/8	16	81	118	166	900	Art. 4.3
STGB167s	STG-B16070-932	10235020202	STG-B16070-932	10235020202	16	262	7/8	22	81	118	178	900	Art. 4.3
STGB305s	STG-B30050-932	10235020302	STG-B30050-932	10235020302	30	492	5/8	16	81	193	241	1700	Art. 4.3
STGB307s	STG-B30070-932	10235020402	STG-B30070-932	10235020402	30	492	7/8	22	81	193	253	1700	Art. 4.3
STGB309s	STG-B30090-932	10235020502			30	492	1 1/8	28	81	193	263	1700	Art. 4.3

### Note:

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



Solder Connection

Selection Table	
Model	Capacity [kW] <sup>1) 2)</sup>
	R32
STGB052s	11.5
STGB053s	25.6
STGB054s	38.8
STGB083s	26.8
STGB084s	40
STGB163s	30.7
STGB164s	46.8
STGB165s	53
STGB167s	65.4
STGB305s	55
STGB307s	72
STGB309s	84

- 1) the above data is based on clean system at ideal conditions; with impurities, accumulated in the filter, the capacity may decrease
- 2) given capacity is for all available types of connection for the same model: solder [inch] and equivalent solder [mm]

## Selection Formulas:

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