

TUBULAR STEAM HEATER

DETAILED OVERVIEW FOR TYPE 'TSHXA'
MEDIUM PRESSURE - 40 BAR



Dimensions overview for type Ø129 & Ø209 - 40bar[g]

Tubular steam heaters are highly used in the food and beverage industry and in connection with many applications such as CIP units. In the food and beverage industry tubular heat exchangers are often used in systems to reduce or eliminate microbials to make products safe for consumption and to extend their shelf life. A tubular heat exchanger may also be used to heat or cool products prior to filling, drying, concentration or other processes.



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Introduction

This overview is for Tubular Steam Heaters manufactured by Wila A/S under the category "TSHXA" hereinafter referred to as "Heat Exchanger". A Tubular Heat Exchanger is by design, two Pressure chambers in a combined housing.

The inner chamber consists of both ends and the insides of all tubes in the tube bundle, hereinafter referred to as "Tube side" or "Product side".

The outer pressure chamber consists of the outside of the tube bundle, and the inside of the exchangers outer shell, hereinafter referred to as "Shell side" or "Service side".

The Heat Exchanger is intended for a steam to fluid heat transfer and is made from EN.1.4404 (AISI 316L) stainless steel with a sanitary surface finish. The tube side is suitable for food stuff fluids, such as dairy products and juices. The entire inside surface roughness is $\leq 0,8\mu\text{m}$ and the outside surface roughness is $\leq 1,6\mu\text{m}$. **All fluid media in use with the Heat exchanger, must be compatible with EN.1.4404 (AISI 316L) Stainless Steel.**

The 40 BAR (580 PSI), maximum product side pressure, heat exchanger design is based on either a Ø129x2 shell or a Ø209x3mm shell. Other sizes and pressure ratings are also available.

Regulations and Directives

The heat exchanger is designed and manufactured in accordance with

- the European Commission regulation No. 2023/2006 (Good Manufacturing Practices)
- the European Parliament directive No. EN 1935/2004 (Food Contact Materials).
- the European Parliament directive No. EN 1907/2006 (Chemical Restrictions (REACH)).
- PED - Article 4.3 (SEP) in the European Parliament directive No. 2014/68/EU (Pressure Equipment Directive). The Heat Exchanger is only designed for fluid group 2 (non-dangerous fluids). For (dangerous fluids) group I restrictions may apply.
- 3-A Sanitary Standards 00-01 / 12-08

Documentation

1. Customer drawing with description and design data table
2. Declaration of conformity
3. Pressure test certificate
4. User Manual

As Supplement the following can be provided:

5. 3.1 material certificates according to EN 10204
6. Weld-logs with associated welding certificates according to DS/EN ISO 9601-1.

Group specifications

Group ordering codes and specifications are as listed below. A more detailed group tables with unit codes and main dimensions can be found on the following pages.

TSHXA-xx-xxx-40

TSHXA **Tubular Steam Heater** with eccentric product side reducer with **3A** certificate.
 xx 01, 02, 03, 04, 06, 08 * Indicates the heat transfer surface area in m².
 xxx Either 129 or 209 * Indicates the heat exchanger shell diameter in mm.
 40 The heat exchanger is designed for pressure up to 40 bar.

* Other versions are available.

TSHXA-xx-xxx-yyy-zz

xx See above
 xxx See above
 yyy See below Indicates tube side clamp ferrule connection.
 zz See below Indicates shell side clamp ferrule connection.

Tube side (P1 and P2) connections are:

Shell size's	Tube side connection size's	
Ø129mm	DN125 – DN100 – DN80 – DN65	in accordance with DIN 32676-A
Ø129mm	Ø101.6 – Ø76.1 – Ø63.5	In accordance with ISO 2852-2
Ø209mm	DN150 – DN125 – DN100	in accordance with DIN 32676-A
Ø209mm	Ø101.6	in accordance with ISO 2852-2

Shell side (S1 and S2) connections, both Ø129 and Ø209 are:

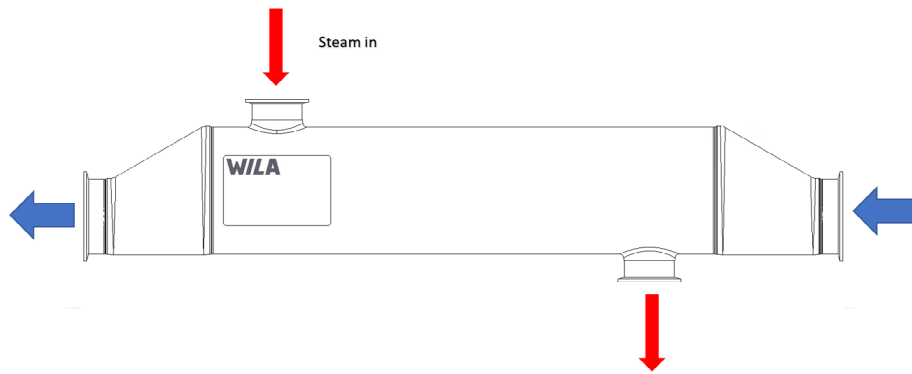
DN80 – DN65 – DN50 – DN40 – DN25	in accordance with DIN 32676-A
Ø76.1 – Ø63.5 – Ø51 – Ø38 – Ø25	in accordance with ISO 2852-2
DN80 (82) – DN65 (70) – DN50 (54) – DN40 (43) – DN25 (28) *	in accordance with DIN 2633 / EN 1092 Type 11

* Numbers in parentheses are numbers used in the unit codes on following pages.

For both tube and shell sides other connections types and sizes are available.

Connections

Always follow your fitting supplier guidelines and local legislations. Depending on the connection size either SH or SSH clamping rings (or similar) are recommended. For steam connections the outlet should always be at the lowest point.



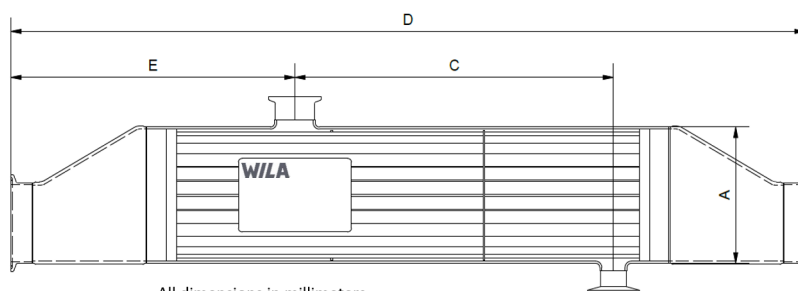
Service side limits

The heat exchanger's shell side maximum pressure and temperature limits are based on the maximum allowed steam pressure, which varies with the size of the heat exchanger:

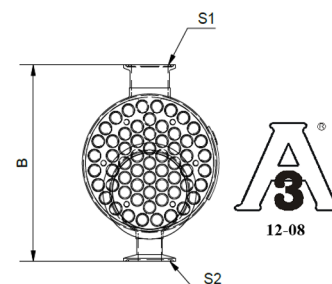
1. For heat exchanger size 1 m² these limits are respectively 10 bar[g] and 185°C
2. For heat exchanger size 2 m² these limits are respectively 8 bar[g] and 176°C
3. For heat exchanger size 3 m² these limits are respectively 6 bar[g] and 165°C
4. For heat exchanger size 4 m² these limits are respectively 4 bar[g] and 152°C
5. For heat exchanger size 6 m² these limits are respectively 3 bar[g] and 144°C
6. For heat exchanger size 8 m² these limits are respectively 2.3 bar[g] and 136°C

Note:

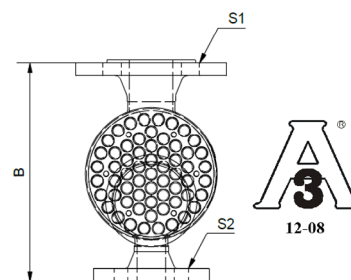
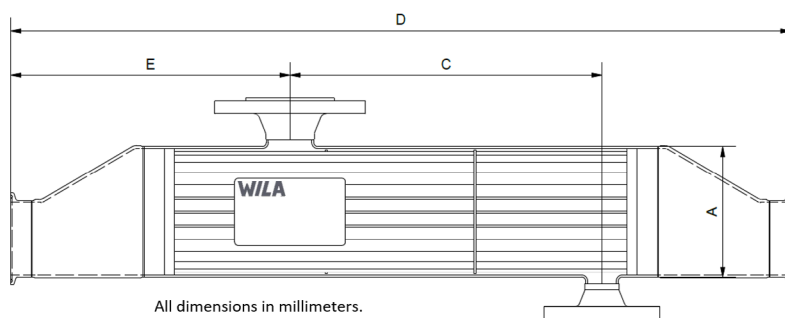
In the following group tables 'Tube bank' is data on the product tubes running paralell inside the shell.



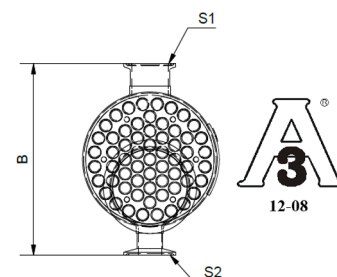
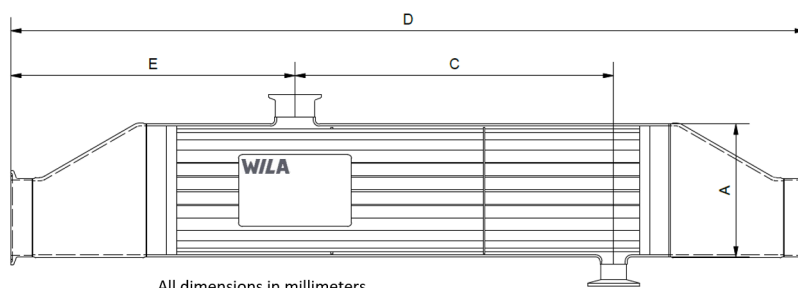
All dimensions in millimeters.



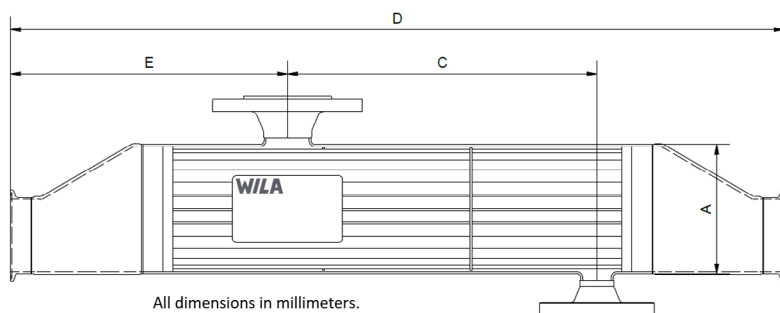
TSHXA-01-129-40		40 barg / 85°C		10 bar[g] / 185°C			Maximum pressure / temperature			
		Volume 6 liters		Volume 2.5 liters			316L Eccentric		Dry weight 15 kg	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-129-100-80	W-037608	DN100	Ø129	DN80	DN40	192	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-101-80	W-037609	Ø101.6	Ø129	DN80	DN40	192	310	777	274	61 pc Ø12x1mm
TSHXA-01-129-080-80	W-037610	DN80	Ø129	DN80	DN40	192	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-076-80	W-037611	Ø76.1	Ø129	DN80	DN40	192	310	777	274	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-129-100-76	W-037612	DN100	Ø129	Ø76.1	Ø38	186	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-101-76	W-037613	Ø101.6	Ø129	Ø76.1	Ø38	186	310	777	274	61 pc Ø12x1mm
TSHXA-01-129-080-76	W-037614	DN80	Ø129	Ø76.1	Ø38	186	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-076-76	W-037615	Ø76.1	Ø129	Ø76.1	Ø38	186	310	777	274	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-129-100-65	W-037616	DN100	Ø129	DN65	DN40	192	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-101-65	W-037617	Ø101.6	Ø129	DN65	DN40	192	310	777	274	61 pc Ø12x1mm
TSHXA-01-129-080-65	W-037618	DN80	Ø129	DN65	DN40	192	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-076-65	W-037619	Ø76.1	Ø129	DN65	DN40	192	310	777	274	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-129-100-63	W-037620	DN100	Ø129	Ø63.5	Ø38	186	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-101-63	W-037621	Ø101.6	Ø129	Ø63.5	Ø38	186	310	777	274	61 pc Ø12x1mm
TSHXA-01-129-080-63	W-037622	DN80	Ø129	Ø63.5	Ø38	186	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-076-63	W-037623	Ø76.1	Ø129	Ø63.5	Ø38	186	310	777	274	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-129-100-50	W-037624	DN100	Ø129	DN50	DN25	186	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-101-50	W-037625	Ø101.6	Ø129	DN50	DN25	186	310	777	274	61 pc Ø12x1mm
TSHXA-01-129-080-50	W-037626	DN80	Ø129	DN50	DN25	186	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-076-50	W-037627	Ø76.1	Ø129	DN50	DN25	186	310	777	274	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-129-100-51	W-037628	DN100	Ø129	Ø51	Ø25	186	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-101-51	W-037629	Ø101.6	Ø129	Ø51	Ø25	186	310	777	274	61 pc Ø12x1mm
TSHXA-01-129-080-51	W-037630	DN80	Ø129	Ø51	Ø25	186	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-076-51	W-037631	Ø76.1	Ø129	Ø51	Ø25	186	310	777	274	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-129-100-40	W-037632	DN100	Ø129	DN40	DN25	186	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-101-40	W-037633	Ø101.6	Ø129	DN40	DN25	186	310	777	274	61 pc Ø12x1mm
TSHXA-01-129-080-40	W-037634	DN80	Ø129	DN40	DN25	186	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-076-40	W-037635	Ø76.1	Ø129	DN40	DN25	186	310	777	274	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-129-100-38	W-037636	DN100	Ø129	Ø38	Ø25	186	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-101-38	W-037637	Ø101.6	Ø129	Ø38	Ø25	186	310	777	274	61 pc Ø12x1mm
TSHXA-01-129-080-38	W-037638	DN80	Ø129	Ø38	Ø25	186	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-076-38	W-037639	Ø76.1	Ø129	Ø38	Ø25	186	310	777	274	61 pc Ø12x1mm



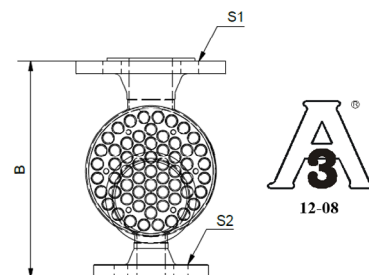
TSHXA-01-129-40-F		40 barg / 85°C		10 bar[g] / 185°C		Maximum pressure / temperature				
		Volume 6 liters		Volume 2.5 liters		316L Eccentric		Dry weight 15 kg		
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-129-100-82F	W-037728	DN100	Ø129	DN80	DN40	229	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-101-82F	W-037729	Ø101.6	Ø129	DN80	DN40	229	310	777	274	61 pc Ø12x1mm
TSHXA-01-129-080-82F	W-037730	DN80	Ø129	DN80	DN40	229	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-076-82F	W-037731	Ø76.1	Ø129	DN80	DN40	229	310	777	274	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-129-100-70F	W-037732	DN100	Ø129	DN65	DN40	224	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-101-70F	W-037733	Ø101.6	Ø129	DN65	DN40	224	310	777	274	61 pc Ø12x1mm
TSHXA-01-129-080-70F	W-037734	DN80	Ø129	DN65	DN40	224	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-076-70F	W-037735	Ø76.1	Ø129	DN65	DN40	224	310	777	274	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-129-100-54F	W-037736	DN100	Ø129	DN50	DN25	221	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-101-54F	W-037737	Ø101.6	Ø129	DN50	DN25	221	310	777	274	61 pc Ø12x1mm
TSHXA-01-129-080-54F	W-037738	DN80	Ø129	DN50	DN25	221	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-076-54F	W-037739	Ø76.1	Ø129	DN50	DN25	221	310	777	274	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-129-100-43F	W-037740	DN100	Ø129	DN40	DN25	218	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-101-43F	W-037741	Ø101.6	Ø129	DN40	DN25	218	310	777	274	61 pc Ø12x1mm
TSHXA-01-129-080-43F	W-037742	DN80	Ø129	DN40	DN25	218	310	790	281	61 pc Ø12x1mm
TSHXA-01-129-076-43F	W-037743	Ø76.1	Ø129	DN40	DN25	218	310	777	274	61 pc Ø12x1mm



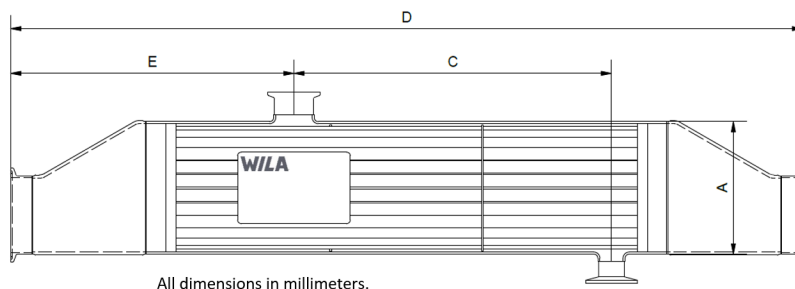
TSHXA-02-129-40		40 barg / 85°C		8 bar[g] / 176°C			Maximum pressure / temperature			
		Volume 8.5 liters		Volume 5 liters			316L Eccentric		Dry weight 26 kg	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-129-100-80	W-037648	DN100	Ø129	DN80	DN40	192	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-101-80	W-037649	Ø101.6	Ø129	DN80	DN40	192	655	1257	410	61 pc Ø12x1mm
TSHXA-02-129-080-80	W-037650	DN80	Ø129	DN80	DN40	192	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-076-80	W-037651	Ø76.1	Ø129	DN80	DN40	192	655	1257	410	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-129-100-76	W-037652	DN100	Ø129	Ø76.1	Ø38	186	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-101-76	W-037653	Ø101.6	Ø129	Ø76.1	Ø38	186	655	1257	410	61 pc Ø12x1mm
TSHXA-02-129-080-76	W-037654	DN80	Ø129	Ø76.1	Ø38	186	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-076-76	W-037655	Ø76.1	Ø129	Ø76.1	Ø38	186	655	1257	410	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-129-100-65	W-037656	DN100	Ø129	DN65	DN40	192	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-101-65	W-037657	Ø101.6	Ø129	DN65	DN40	192	655	1257	410	61 pc Ø12x1mm
TSHXA-02-129-080-65	W-037658	DN80	Ø129	DN65	DN40	192	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-076-65	W-037659	Ø76.1	Ø129	DN65	DN40	192	655	1257	410	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-129-100-63	W-037660	DN100	Ø129	Ø63.5	Ø38	186	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-101-63	W-037661	Ø101.6	Ø129	Ø63.5	Ø38	186	655	1257	410	61 pc Ø12x1mm
TSHXA-02-129-080-63	W-037662	DN80	Ø129	Ø63.5	Ø38	186	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-076-63	W-037663	Ø76.1	Ø129	Ø63.5	Ø38	186	655	1257	410	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-129-100-50	W-037664	DN100	Ø129	DN50	DN25	186	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-101-50	W-037665	Ø101.6	Ø129	DN50	DN25	186	655	1257	410	61 pc Ø12x1mm
TSHXA-02-129-080-50	W-037666	DN80	Ø129	DN50	DN25	186	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-076-50	W-037667	Ø76.1	Ø129	DN50	DN25	186	655	1257	410	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-129-100-51	W-037668	DN100	Ø129	Ø51	Ø25	186	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-101-51	W-037669	Ø101.6	Ø129	Ø51	Ø25	186	655	1257	410	61 pc Ø12x1mm
TSHXA-02-129-080-51	W-037670	DN80	Ø129	Ø51	Ø25	186	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-076-51	W-037671	Ø76.1	Ø129	Ø51	Ø25	186	655	1257	410	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-129-100-40	W-037672	DN100	Ø129	DN40	DN25	186	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-101-40	W-037673	Ø101.6	Ø129	DN40	DN25	186	655	1257	410	61 pc Ø12x1mm
TSHXA-02-129-080-40	W-037674	DN80	Ø129	DN40	DN25	186	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-076-40	W-037675	Ø76.1	Ø129	DN40	DN25	186	655	1257	410	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	DN25	B	C	D	E	Tube bank
TSHXA-02-129-100-38	W-037676	DN100	Ø129	Ø38	Ø25	186	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-101-38	W-037677	Ø101.6	Ø129	Ø38	Ø25	186	655	1257	410	61 pc Ø12x1mm
TSHXA-02-129-080-38	W-037678	DN80	Ø129	Ø38	Ø25	186	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-076-38	W-037679	Ø76.1	Ø129	Ø38	Ø25	186	655	1257	410	61 pc Ø12x1mm



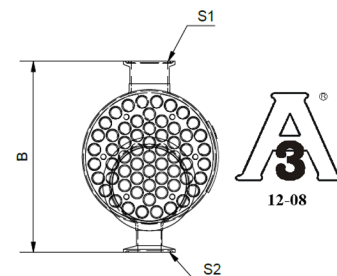
All dimensions in millimeters.



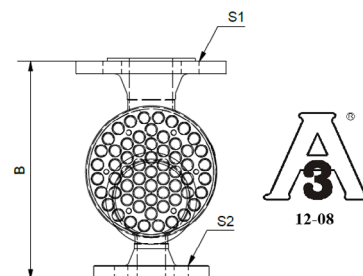
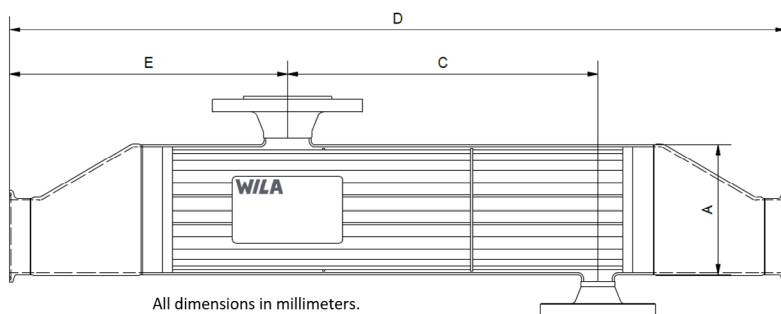
TSHXA-02-129-40-F		40 barg / 85°C		8 bar[g] / 176°C			Maximum pressure / temperature			
		Volume 8.5 liters		Volume 5 liters			316L Eccentric		Dry weight 26 kg	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-129-100-82F	W-037744	DN100	Ø129	DN80	DN40	229	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-101-82F	W-037745	Ø101.6	Ø129	DN80	DN40	229	655	1257	410	61 pc Ø12x1mm
TSHXA-02-129-080-82F	W-037746	DN80	Ø129	DN80	DN40	229	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-076-82F	W-037747	Ø76.1	Ø129	DN80	DN40	229	655	1257	410	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-129-100-70F	W-037748	DN100	Ø129	DN65	DN40	224	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-101-70F	W-037749	Ø101.6	Ø129	DN65	DN40	224	655	1257	410	61 pc Ø12x1mm
TSHXA-02-129-080-70F	W-037750	DN80	Ø129	DN65	DN40	224	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-076-70F	W-037751	Ø76.1	Ø129	DN65	DN40	224	655	1257	410	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-129-100-54F	W-037752	DN100	Ø129	DN50	DN25	221	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-101-54F	W-037753	Ø101.6	Ø129	DN50	DN25	221	655	1257	410	61 pc Ø12x1mm
TSHXA-02-129-080-54F	W-037754	DN80	Ø129	DN50	DN25	221	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-076-54F	W-037755	Ø76.1	Ø129	DN50	DN25	221	655	1257	410	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-129-100-43F	W-037756	DN100	Ø129	DN40	DN25	218	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-101-43F	W-037757	Ø101.6	Ø129	DN40	DN25	218	655	1257	410	61 pc Ø12x1mm
TSHXA-02-129-080-43F	W-037758	DN80	Ø129	DN40	DN25	218	655	1270	416	61 pc Ø12x1mm
TSHXA-02-129-076-43F	W-037759	Ø76.1	Ø129	DN40	DN25	218	655	1257	410	61 pc Ø12x1mm



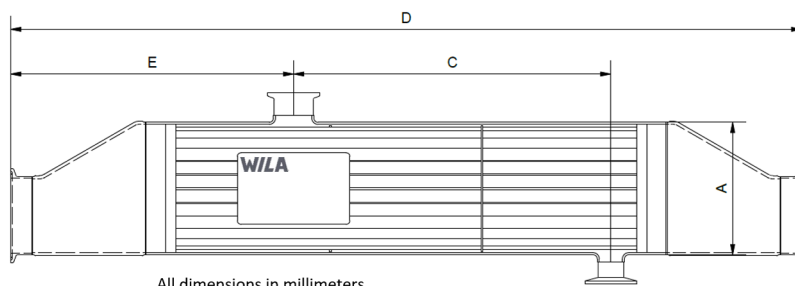
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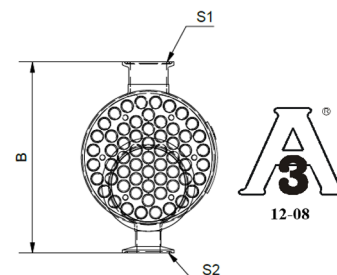
TSHXA-03-129-40		40 barg / 85°C		6 bar[g] / 165°C			Maximum pressure / temperature			
		Volume 10 liters		Volume 7.5 liters			316L Eccentric		Dry weight 38 kg	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-129-100-80	W-037688	DN100	Ø129	DN80	DN40	192	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-101-80	W-037689	Ø101.6	Ø129	DN80	DN40	192	1020	1757	540	61 pc Ø12x1mm
TSHXA-03-129-080-80	W-037690	DN80	Ø129	DN80	DN40	192	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-076-80	W-037691	Ø76.1	Ø129	DN80	DN40	192	1020	1757	540	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-129-100-76	W-037692	DN100	Ø129	Ø76.1	Ø38	186	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-101-76	W-037693	Ø101.6	Ø129	Ø76.1	Ø38	186	1020	1757	540	61 pc Ø12x1mm
TSHXA-03-129-080-76	W-037694	DN80	Ø129	Ø76.1	Ø38	186	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-076-76	W-037695	Ø76.1	Ø129	Ø76.1	Ø38	186	1020	1757	540	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-129-100-65	W-037696	DN100	Ø129	DN65	DN40	192	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-101-65	W-037697	Ø101.6	Ø129	DN65	DN40	192	1020	1757	540	61 pc Ø12x1mm
TSHXA-03-129-080-65	W-037698	DN80	Ø129	DN65	DN40	192	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-076-65	W-037699	Ø76.1	Ø129	DN65	DN40	192	1020	1757	540	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-129-100-63	W-037700	DN100	Ø129	Ø63.5	Ø38	186	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-101-63	W-037701	Ø101.6	Ø129	Ø63.5	Ø38	186	1020	1757	540	61 pc Ø12x1mm
TSHXA-03-129-080-63	W-037702	DN80	Ø129	Ø63.5	Ø38	186	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-076-63	W-037703	Ø76.1	Ø129	Ø63.5	Ø38	186	1020	1757	540	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-129-100-50	W-037704	DN100	Ø129	DN50	DN25	186	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-101-50	W-037705	Ø101.6	Ø129	DN50	DN25	186	1020	1757	540	61 pc Ø12x1mm
TSHXA-03-129-080-50	W-037706	DN80	Ø129	DN50	DN25	186	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-076-50	W-037707	Ø76.1	Ø129	DN50	DN25	186	1020	1757	540	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-129-100-51	W-037708	DN100	Ø129	Ø51	Ø25	186	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-101-51	W-037709	Ø101.6	Ø129	Ø51	Ø25	186	1020	1757	540	61 pc Ø12x1mm
TSHXA-03-129-080-51	W-037710	DN80	Ø129	Ø51	Ø25	186	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-076-51	W-037711	Ø76.1	Ø129	Ø51	Ø25	186	1020	1757	540	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-129-100-40	W-037712	DN100	Ø129	DN40	DN25	186	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-101-40	W-037713	Ø101.6	Ø129	DN40	DN25	186	1020	1757	540	61 pc Ø12x1mm
TSHXA-03-129-080-40	W-037714	DN80	Ø129	DN40	DN25	186	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-076-40	W-037715	Ø76.1	Ø129	DN40	DN25	186	1020	1757	540	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	SI	S2	B	C	D	E	Tube bank
TSHXA-03-129-100-38	W-037716	DN100	Ø129	Ø38	Ø25	186	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-101-38	W-037717	Ø101.6	Ø129	Ø38	Ø25	186	1020	1757	540	61 pc Ø12x1mm
TSHXA-03-129-080-38	W-037718	DN80	Ø129	Ø38	Ø25	186	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-076-38	W-037719	Ø76.1	Ø129	Ø38	Ø25	186	1020	1757	540	61 pc Ø12x1mm



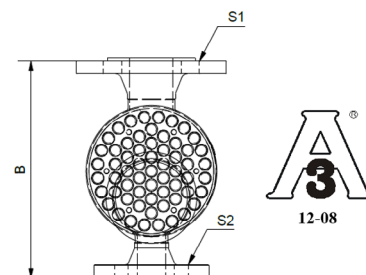
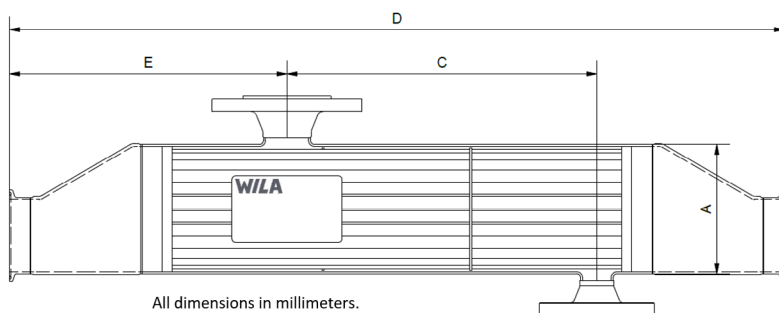
TSHXA-03-129-40-F		40 barg / 85°C		6 bar[g] / 165°C			Maximum pressure / temperature			
		Volume 10 liters		Volume 7.5 liters			316L Eccentric		Dry weight 38 kg	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-129-100-82F	W-037760	DN100	Ø129	DN80	DN40	229	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-101-82F	W-037761	Ø101.6	Ø129	DN80	DN40	229	1020	1757	540	61 pc Ø12x1mm
TSHXA-03-129-080-82F	W-037762	DN80	Ø129	DN80	DN40	229	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-076-82F	W-037763	Ø76.1	Ø129	DN80	DN40	229	1020	1757	540	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-129-100-70F	W-037764	DN100	Ø129	DN65	DN40	224	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-101-70F	W-037765	Ø101.6	Ø129	DN65	DN40	224	1020	1757	540	61 pc Ø12x1mm
TSHXA-03-129-080-70F	W-037766	DN80	Ø129	DN65	DN40	224	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-076-70F	W-037767	Ø76.1	Ø129	DN65	DN40	224	1020	1757	540	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-129-100-54F	W-037768	DN100	Ø129	DN50	DN25	221	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-101-54F	W-037769	Ø101.6	Ø129	DN50	DN25	221	1020	1757	540	61 pc Ø12x1mm
TSHXA-03-129-080-54F	W-037770	DN80	Ø129	DN50	DN25	221	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-076-54F	W-037771	Ø76.1	Ø129	DN50	DN25	221	1020	1757	540	61 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-129-100-43F	W-037772	DN100	Ø129	DN40	DN25	218	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-101-43F	W-037773	Ø101.6	Ø129	DN40	DN25	218	1020	1757	540	61 pc Ø12x1mm
TSHXA-03-129-080-43F	W-037774	DN80	Ø129	DN40	DN25	218	1020	1770	546	61 pc Ø12x1mm
TSHXA-03-129-076-43F	W-037775	Ø76.1	Ø129	DN40	DN25	218	1020	1757	540	61 pc Ø12x1mm



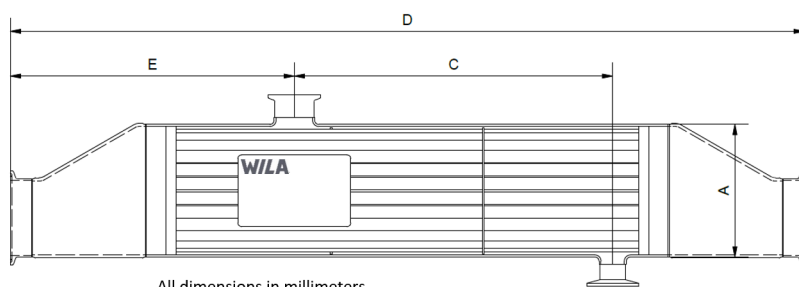
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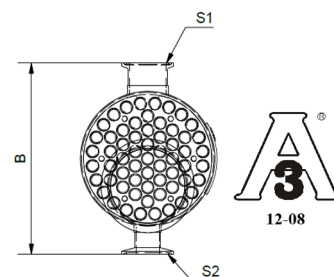
TSHXA-01-209-40		40 barg / 85°C		10 bar[g] / 185°C			Maximum pressure / temperature			
		Volume 13 liters		Volume 3 liters			316L Eccentric		Dry weight 22 kg	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-209-150-50	W-037776	DN150	Ø209	DN50	DN25	266	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-125-50	W-037777	DN125	Ø209	DN50	DN25	266	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-100-50	W-037778	DN100	Ø209	DN50	DN25	266	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-101-50	W-037779	Ø101.6	Ø209	DN50	DN25	266	90	590	258	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-209-150-51	W-037780	DN150	Ø209	Ø51	Ø25	266	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-125-51	W-037781	DN125	Ø209	Ø51	Ø25	266	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-100-51	W-037782	DN100	Ø209	Ø51	Ø25	266	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-101-51	W-037783	Ø101.6	Ø209	Ø51	Ø25	266	90	590	258	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-209-150-40	W-037784	DN150	Ø209	DN40	DN25	266	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-125-40	W-037785	DN125	Ø209	DN40	DN25	266	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-100-40	W-037786	DN100	Ø209	DN40	DN25	266	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-101-40	W-037787	Ø101.6	Ø209	DN40	DN25	266	90	590	258	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-209-150-38	W-037788	DN150	Ø209	Ø38	Ø25	266	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-125-38	W-037789	DN125	Ø209	Ø38	Ø25	266	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-100-38	W-037790	DN100	Ø209	Ø38	Ø25	266	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-101-38	W-037791	Ø101.6	Ø209	Ø38	Ø25	266	90	590	258	163 pc Ø12x1mm



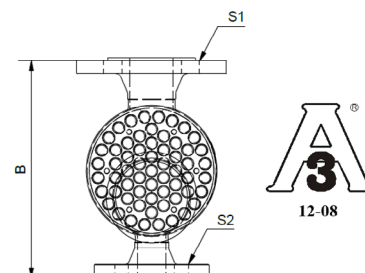
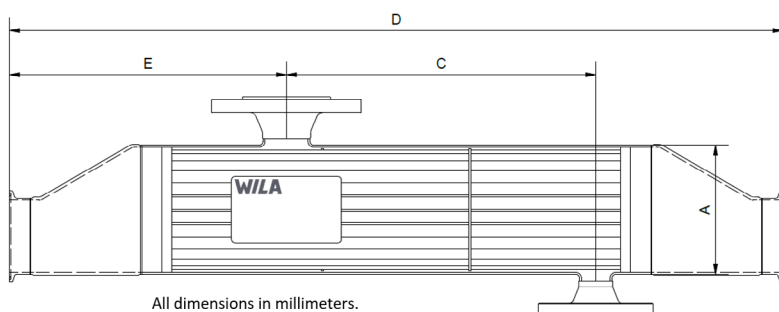
TSHXA-01-209-40-F		40 barg / 85°C		10 bar[g] / 185°C			Maximum pressure / temperature			
		Volume 13 liters		Volume 3 liters			316L Eccentric		Dry weight 22 kg	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-209-150-54F	W-038018	DN150	Ø209	DN50	DN25	301	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-125-54F	W-038019	DN125	Ø209	DN50	DN25	301	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-100-54F	W-038020	DN100	Ø209	DN50	DN25	301	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-101-54F	W-038021	Ø101.6	Ø209	DN50	DN25	301	90	590	258	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-01-209-150-43F	W-038022	DN150	Ø209	DN40	DN25	298	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-125-43F	W-038023	DN125	Ø209	DN40	DN25	298	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-100-43F	W-038024	DN100	Ø209	DN40	DN25	298	90	603	264	163 pc Ø12x1mm
TSHXA-01-209-101-43F	W-038025	Ø101.6	Ø209	DN40	DN25	298	90	590	258	163 pc Ø12x1mm



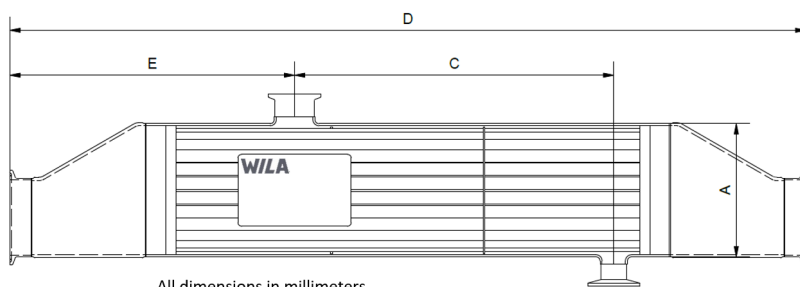
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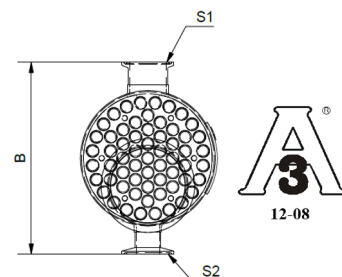
TSHXA-02-209-40		40 barg / 85°C		8 bar[g] / 176°C			Maximum pressure / temperature			
		Volume 13.5 liters		Volume 5.5 liters			316L Eccentric		Dry weight 32 kg	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-209-150-80	W-037798	DN150	Ø209	DN80	DN40	272	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-125-80	W-037799	DN125	Ø209	DN80	DN40	272	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-100-80	W-037800	DN100	Ø209	DN80	DN40	272	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-101-80	W-037801	Ø101.6	Ø209	DN80	DN40	272	255	775	278	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-209-150-76	W-037802	DN150	Ø209	Ø76,1	Ø38	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-125-76	W-037803	DN125	Ø209	Ø76,1	Ø38	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-100-76	W-037804	DN100	Ø209	Ø76,1	Ø38	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-101-76	W-037805	Ø101.6	Ø209	Ø76,1	Ø38	266	255	775	278	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-209-150-65	W-037806	DN150	Ø209	DN65	DN40	272	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-125-65	W-037807	DN125	Ø209	DN65	DN40	272	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-100-65	W-037808	DN100	Ø209	DN65	DN40	272	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-101-65	W-037809	Ø101.6	Ø209	DN65	DN40	272	255	775	278	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-209-150-63	W-037810	DN150	Ø209	Ø63.5	Ø38	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-125-63	W-037811	DN125	Ø209	Ø63.5	Ø38	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-100-63	W-037812	DN100	Ø209	Ø63.5	Ø38	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-101-63	W-037813	Ø101.6	Ø209	Ø63.5	Ø38	266	255	775	278	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-209-150-50	W-037814	DN150	Ø209	DN50	DN25	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-125-50	W-037815	DN125	Ø209	DN50	DN25	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-100-50	W-037816	DN100	Ø209	DN50	DN25	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-101-50	W-037817	Ø101.6	Ø209	DN50	DN25	266	255	775	278	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-209-150-51	W-037818	DN150	Ø209	Ø51	Ø25	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-125-51	W-037819	DN125	Ø209	Ø51	Ø25	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-100-51	W-037820	DN100	Ø209	Ø51	Ø25	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-101-51	W-037821	Ø101.6	Ø209	Ø51	Ø25	266	255	775	278	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-209-150-40	W-037822	DN150	Ø209	DN40	DN25	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-125-40	W-037823	DN125	Ø209	DN40	DN25	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-100-40	W-037824	DN100	Ø209	DN40	DN25	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-101-40	W-037825	Ø101.6	Ø209	DN40	DN25	266	255	775	278	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-209-150-38	W-037826	DN150	Ø209	Ø38	Ø25	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-125-38	W-037827	DN125	Ø209	Ø38	Ø25	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-100-38	W-037828	DN100	Ø209	Ø38	Ø25	266	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-101-38	W-037829	Ø101.6	Ø209	Ø38	Ø25	266	255	775	278	163 pc Ø12x1mm



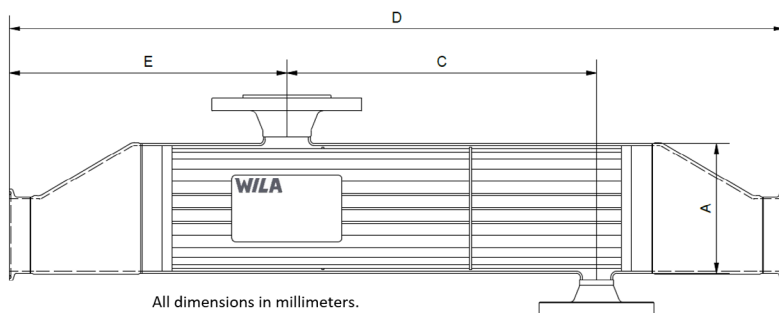
TSHXA-02-209-40-F		40 barg / 85°C		8 bar[g] / 176°C			Maximum pressure / temperature			
		Volume 13.5 liters		Volume 5.5 liters			316L Eccentric		Dry weight 32 kg	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-209-150-82F	W-038026	DN150	Ø209	DN80	DN40	309	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-125-82F	W-038027	DN125	Ø209	DN80	DN40	309	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-100-82F	W-038028	DN100	Ø209	DN80	DN40	309	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-101-82F	W-038029	Ø101.6	Ø209	DN80	DN40	309	255	775	278	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-209-150-70F	W-038030	DN150	Ø209	DN65	DN40	304	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-125-70F	W-038031	DN125	Ø209	DN65	DN40	304	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-100-70F	W-038032	DN100	Ø209	DN65	DN40	304	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-101-70F	W-038033	Ø101.6	Ø209	DN65	DN40	304	255	775	278	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-209-150-54F	W-038034	DN150	Ø209	DN50	DN25	301	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-125-54F	W-038035	DN125	Ø209	DN50	DN25	301	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-100-54F	W-038036	DN100	Ø209	DN50	DN25	301	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-101-54F	W-038037	Ø101.6	Ø209	DN50	DN25	301	255	775	278	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-02-209-150-43F	W-038038	DN150	Ø209	DN40	DN25	298	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-125-43F	W-038039	DN125	Ø209	DN40	DN25	298	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-100-43F	W-038040	DN100	Ø209	DN40	DN25	298	255	788	284	163 pc Ø12x1mm
TSHXA-02-209-101-43F	W-038041	Ø101.6	Ø209	DN40	DN25	298	255	775	278	163 pc Ø12x1mm



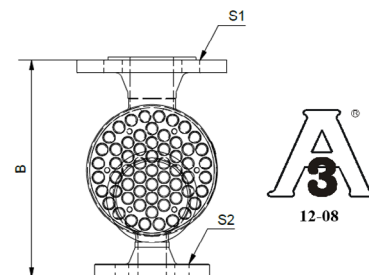
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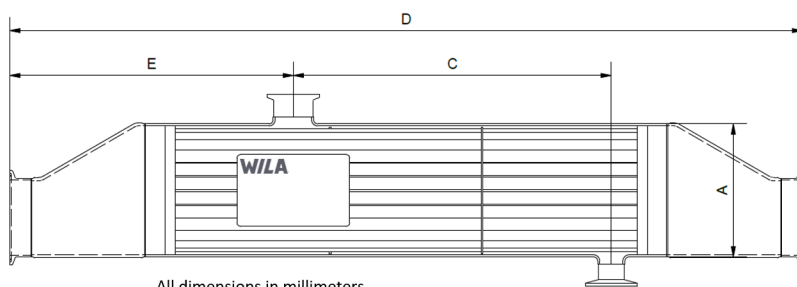
TSHXA-03-209-40		40 barg / 85°C		6 bar[g] / 165°C			Maximum pressure / temperature			
		Volume 17 liters		Volume 8.3 liters			316L Eccentric		Dry weight 46 kg	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-209-150-80	W-037842	DN150	Ø209	DN80	DN40	272	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-125-80	W-037843	DN125	Ø209	DN80	DN40	272	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-100-80	W-037844	DN100	Ø209	DN80	DN40	272	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-101-80	W-037845	Ø101.6	Ø209	DN80	DN40	272	405	995	348	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-209-150-76	W-037846	DN150	Ø209	Ø76.1	Ø38	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-125-76	W-037847	DN125	Ø209	Ø76.1	Ø38	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-100-76	W-037848	DN100	Ø209	Ø76.1	Ø38	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-101-76	W-037849	Ø101.6	Ø209	Ø76.1	Ø38	266	405	995	348	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-209-150-65	W-037850	DN150	Ø209	DN65	DN40	272	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-125-65	W-037851	DN125	Ø209	DN65	DN40	272	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-100-65	W-037852	DN100	Ø209	DN65	DN40	272	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-101-65	W-037853	Ø101.6	Ø209	DN65	DN40	272	405	995	348	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-209-150-63	W-037854	DN150	Ø209	Ø63.5	Ø38	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-125-63	W-037855	DN125	Ø209	Ø63.5	Ø38	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-100-63	W-037856	DN100	Ø209	Ø63.5	Ø38	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-101-63	W-037857	Ø101.6	Ø209	Ø63.5	Ø38	266	405	995	348	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-209-150-50	W-037858	DN150	Ø209	DN50	DN25	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-125-50	W-037859	DN125	Ø209	DN50	DN25	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-100-50	W-037860	DN100	Ø209	DN50	DN25	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-101-50	W-037861	Ø101.6	Ø209	DN50	DN25	266	405	995	348	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-209-150-51	W-037862	DN150	Ø209	Ø51	Ø25	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-125-51	W-037863	DN125	Ø209	Ø51	Ø25	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-100-51	W-037864	DN100	Ø209	Ø51	Ø25	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-101-51	W-037865	Ø101.6	Ø209	Ø51	Ø25	266	405	995	348	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-209-150-40	W-037866	DN150	Ø209	DN40	DN25	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-125-40	W-037867	DN125	Ø209	DN40	DN25	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-100-40	W-037868	DN100	Ø209	DN40	DN25	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-101-40	W-037869	Ø101.6	Ø209	DN40	DN25	266	405	995	348	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-209-150-38	W-037870	DN150	Ø209	Ø38	Ø25	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-125-38	W-037871	DN125	Ø209	Ø38	Ø25	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-100-38	W-037872	DN100	Ø209	Ø38	Ø25	266	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-101-38	W-037873	Ø101.6	Ø209	Ø38	Ø25	266	405	995	348	163 pc Ø12x1mm



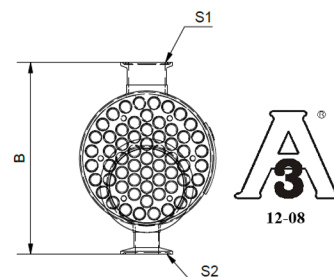
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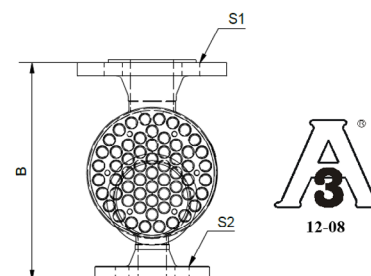
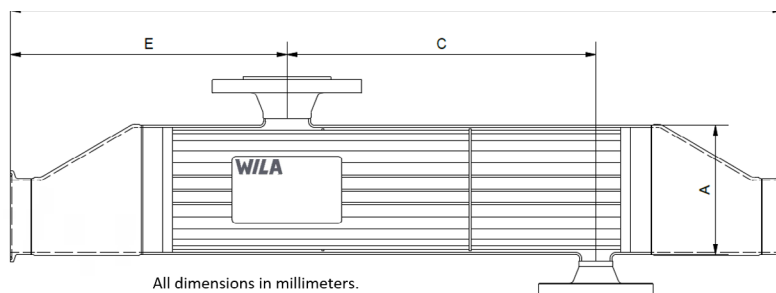
TSHXA-03-209-40-F		40 barg / 85°C		6 bar[g] / 165°C			Maximum pressure / temperature			
		Volume 17 liters		Volume 8.3 liters			316L Eccentric		Dry weight 46 kg	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-209-150-82F	W-038042	DN150	Ø209	DN80	DN40	309	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-125-82F	W-038043	DN125	Ø209	DN80	DN40	309	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-100-82F	W-038044	DN100	Ø209	DN80	DN40	309	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-101-82F	W-038045	Ø101.6	Ø209	DN80	DN40	309	405	995	348	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-209-150-70F	W-038046	DN150	Ø209	DN65	DN40	304	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-125-70F	W-038047	DN125	Ø209	DN65	DN40	304	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-100-70F	W-038048	DN100	Ø209	DN65	DN40	304	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-101-70F	W-038049	Ø101.6	Ø209	DN65	DN40	304	405	995	348	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-209-150-54F	W-038050	DN150	Ø209	DN50	DN25	301	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-125-54F	W-038051	DN125	Ø209	DN50	DN25	301	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-100-54F	W-038052	DN100	Ø209	DN50	DN25	301	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-101-54F	W-038053	Ø101.6	Ø209	DN50	DN25	301	405	995	348	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-03-209-150-43F	W-038054	DN150	Ø209	DN40	DN25	298	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-125-43F	W-038055	DN125	Ø209	DN40	DN25	298	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-100-43F	W-038056	DN100	Ø209	DN40	DN25	298	405	1008	354	163 pc Ø12x1mm
TSHXA-03-209-101-43F	W-038057	Ø101.6	Ø209	DN40	DN25	298	405	995	348	163 pc Ø12x1mm



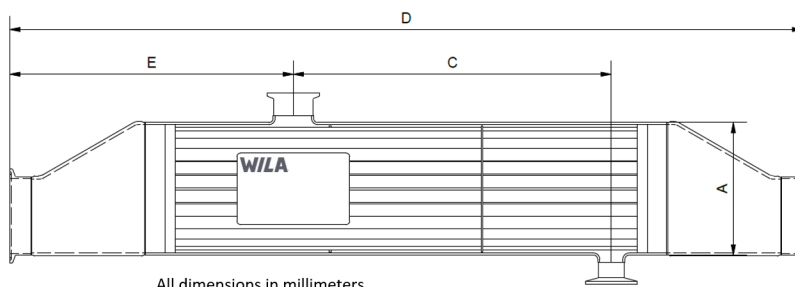
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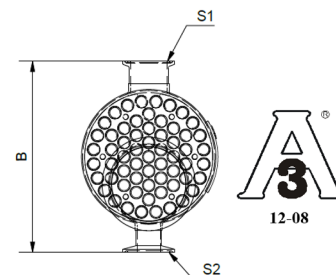
TSHXA-04-209-40		40 barg / 85°C		4 bar[g] / 152°C			Maximum pressure / temperature			
		Volume 20 liters		Volume 10.5 liters			316L Eccentric		Dry weight 56 kg	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-04-209-150-80	W-037886	DN150	Ø209	DN80	DN40	272	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-125-80	W-037887	DN125	Ø209	DN80	DN40	272	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-100-80	W-037888	DN100	Ø209	DN80	DN40	272	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-101-80	W-037889	Ø101.6	Ø209	DN80	DN40	272	500	1142	400	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-04-209-150-76	W-037890	DN150	Ø209	Ø76.1	Ø38	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-125-76	W-037891	DN125	Ø209	Ø76.1	Ø38	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-100-76	W-037892	DN100	Ø209	Ø76.1	Ø38	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-101-76	W-037893	Ø101.6	Ø209	Ø76.1	Ø38	266	500	1142	400	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-04-209-150-65	W-037894	DN150	Ø209	DN65	DN40	272	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-125-65	W-037895	DN125	Ø209	DN65	DN40	272	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-100-65	W-037896	DN100	Ø209	DN65	DN40	272	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-101-65	W-037897	Ø101.6	Ø209	DN65	DN40	272	500	1142	400	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-04-209-150-63	W-037898	DN150	Ø209	Ø63.5	Ø38	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-125-63	W-037899	DN125	Ø209	Ø63.5	Ø38	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-100-63	W-037900	DN100	Ø209	Ø63.5	Ø38	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-101-63	W-037901	Ø101.6	Ø209	Ø63.5	Ø38	266	500	1142	400	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-04-209-150-50	W-037902	DN150	Ø209	DN50	DN25	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-125-50	W-037903	DN125	Ø209	DN50	DN25	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-100-50	W-037904	DN100	Ø209	DN50	DN25	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-101-50	W-037905	Ø101.6	Ø209	DN50	DN25	266	500	1142	400	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-04-209-150-51	W-037906	DN150	Ø209	Ø51	Ø25	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-125-51	W-037907	DN125	Ø209	Ø51	Ø25	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-100-51	W-037908	DN100	Ø209	Ø51	Ø25	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-101-51	W-037909	Ø101.6	Ø209	Ø51	Ø25	266	500	1142	400	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-04-209-150-40	W-037910	DN150	Ø209	DN40	DN25	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-125-40	W-037911	DN125	Ø209	DN40	DN25	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-100-40	W-037912	DN100	Ø209	DN40	DN25	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-101-40	W-037913	Ø101.6	Ø209	DN40	DN25	266	500	1142	400	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-04-209-150-38	W-037914	DN150	Ø209	Ø38	Ø25	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-125-38	W-037915	DN125	Ø209	Ø38	Ø25	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-100-38	W-037916	DN100	Ø209	Ø38	Ø25	266	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-101-38	W-037917	Ø101.6	Ø209	Ø38	Ø25	266	500	1142	400	163 pc Ø12x1mm



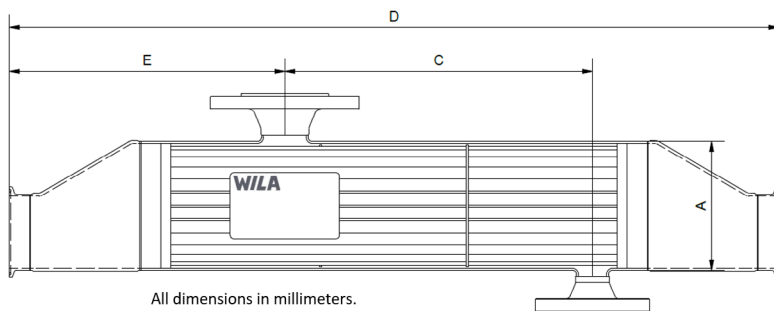
TSHXA-04-209-40-F		40 barg / 85°C		4 bar[g] / 152°C			Maximum pressure / temperature			
		Volume 20 liters		Volume 10.5 liters			316L Eccentric		Dry weight 56 kg	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-04-209-150-82F	W-038058	DN150	Ø209	DN80	DN40	309	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-125-82F	W-038059	DN125	Ø209	DN80	DN40	309	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-100-82F	W-038060	DN100	Ø209	DN80	DN40	309	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-101-82F	W-038061	Ø101.6	Ø209	DN80	DN40	309	500	1142	400	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-04-209-150-70F	W-038062	DN150	Ø209	DN65	DN40	304	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-125-70F	W-038063	DN125	Ø209	DN65	DN40	304	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-100-70F	W-038064	DN100	Ø209	DN65	DN40	304	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-101-70F	W-038065	Ø101.6	Ø209	DN65	DN40	304	500	1142	400	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-04-209-150-54F	W-038066	DN150	Ø209	DN50	DN25	301	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-125-54F	W-038067	DN125	Ø209	DN50	DN25	301	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-100-54F	W-038068	DN100	Ø209	DN50	DN25	301	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-101-54F	W-038069	Ø101.6	Ø209	DN50	DN25	301	500	1142	400	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-04-209-150-43F	W-038070	DN150	Ø209	DN40	DN25	298	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-125-43F	W-038071	DN125	Ø209	DN40	DN25	298	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-100-43F	W-038072	DN100	Ø209	DN40	DN25	298	500	1155	406	163 pc Ø12x1mm
TSHXA-04-209-101-43F	W-038073	Ø101.6	Ø209	DN40	DN25	298	500	1142	400	163 pc Ø12x1mm



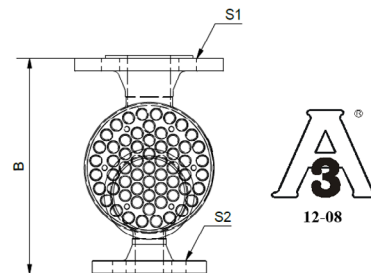
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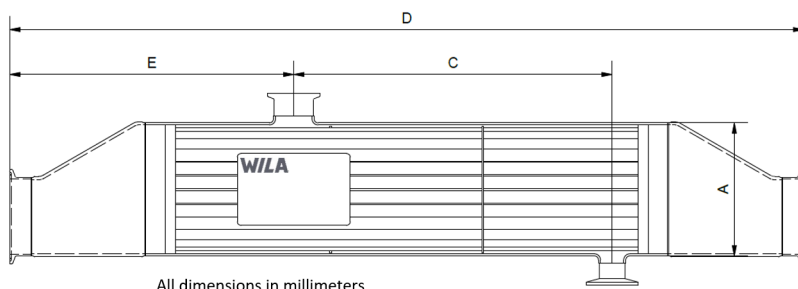
TSHXA-06-209-40		40 barg / 85°C		3 bar[g] / 144°C			Maximum pressure / temperature			
		Volume 25 liters		Volume 15.5 liters			316L Eccentric		Dry weight 79 kg	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-06-209-150-80	W-037930	DN150	Ø209	DN80	DN40	272	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-125-80	W-037931	DN125	Ø209	DN80	DN40	272	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-100-80	W-037932	DN100	Ø209	DN80	DN40	272	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-101-80	W-037933	Ø101.6	Ø209	DN80	DN40	272	685	1522	595	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-06-209-150-76	W-037934	DN150	Ø209	Ø76.1	Ø38	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-125-76	W-037935	DN125	Ø209	Ø76.1	Ø38	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-100-76	W-037936	DN100	Ø209	Ø76.1	Ø38	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-101-76	W-037937	Ø101.6	Ø209	Ø76.1	Ø38	266	685	1522	595	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-06-209-150-65	W-037938	DN150	Ø209	DN65	DN40	272	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-125-65	W-037939	DN125	Ø209	DN65	DN40	272	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-100-65	W-037940	DN100	Ø209	DN65	DN40	272	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-101-65	W-037941	Ø101.6	Ø209	DN65	DN40	272	685	1522	595	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-06-209-150-63	W-037942	DN150	Ø209	Ø63.5	Ø38	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-125-63	W-037943	DN125	Ø209	Ø63.5	Ø38	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-100-63	W-037944	DN100	Ø209	Ø63.5	Ø38	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-101-63	W-037945	Ø101.6	Ø209	Ø63.5	Ø38	266	685	1522	595	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-06-209-150-50	W-037946	DN150	Ø209	DN50	DN25	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-125-50	W-037947	DN125	Ø209	DN50	DN25	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-100-50	W-037948	DN100	Ø209	DN50	DN25	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-101-50	W-037949	Ø101.6	Ø209	DN50	DN25	266	685	1522	595	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-06-209-150-51	W-037950	DN150	Ø209	Ø51	Ø25	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-125-51	W-037951	DN125	Ø209	Ø51	Ø25	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-100-51	W-037952	DN100	Ø209	Ø51	Ø25	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-101-51	W-037953	Ø101.6	Ø209	Ø51	Ø25	266	685	1522	595	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-06-209-150-40	W-037954	DN150	Ø209	DN40	DN25	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-125-40	W-037955	DN125	Ø209	DN40	DN25	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-100-40	W-037956	DN100	Ø209	DN40	DN25	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-101-40	W-037957	Ø101.6	Ø209	DN40	DN25	266	685	1522	595	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-06-209-150-38	W-037958	DN150	Ø209	Ø38	Ø25	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-125-38	W-037959	DN125	Ø209	Ø38	Ø25	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-100-38	W-037960	DN100	Ø209	Ø38	Ø25	266	685	1535	601	163 pc Ø12x1mm
TSHXA-06-209-101-38	W-037961	Ø101.6	Ø209	Ø38	Ø25	266	685	1522	595	163 pc Ø12x1mm



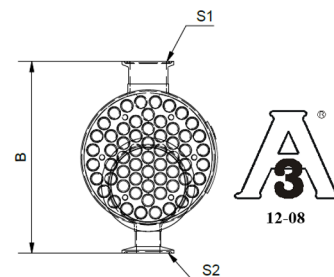
All dimensions in millimeters.



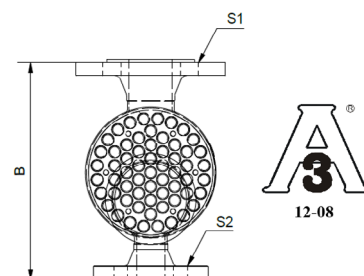
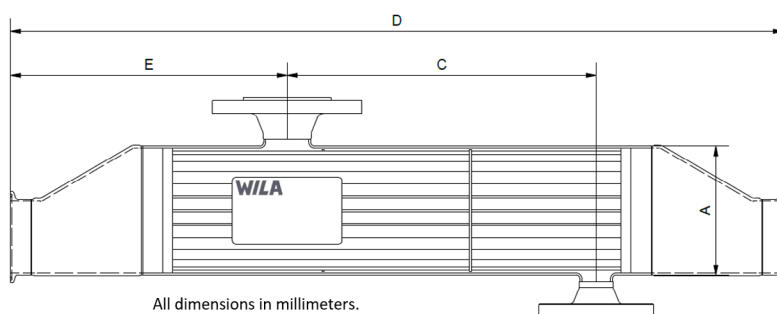
TSHXA-06-209-40-F		40 barg / 85°C		3 bar[g] / 144°C			Maximum pressure / temperature				
		Volume 25 liters		Volume 15.5 liters			316L Eccentric		Dry weight 79 kg		
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank	
TSHXA-06-209-150-82F	W-038074	DN150	Ø209	DN80	DN40	309	685	1535	601	163 pc Ø12x1mm	
TSHXA-06-209-125-82F	W-038075	DN125	Ø209	DN80	DN40	309	685	1535	601	163 pc Ø12x1mm	
TSHXA-06-209-100-82F	W-038076	DN100	Ø209	DN80	DN40	309	685	1535	601	163 pc Ø12x1mm	
TSHXA-06-209-101-82F	W-038077	Ø101.6	Ø209	DN80	DN40	309	685	1522	595	163 pc Ø12x1mm	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank	
TSHXA-06-209-150-70F	W-038078	DN150	Ø209	DN65	DN40	304	685	1535	601	163 pc Ø12x1mm	
TSHXA-06-209-125-70F	W-038079	DN125	Ø209	DN65	DN40	304	685	1535	601	163 pc Ø12x1mm	
TSHXA-06-209-100-70F	W-038080	DN100	Ø209	DN65	DN40	304	685	1535	601	163 pc Ø12x1mm	
TSHXA-06-209-101-70F	W-038081	Ø101.6	Ø209	DN65	DN40	304	685	1522	595	163 pc Ø12x1mm	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank	
TSHXA-06-209-150-54F	W-038082	DN150	Ø209	DN50	DN25	301	685	1535	601	163 pc Ø12x1mm	
TSHXA-06-209-125-54F	W-038083	DN125	Ø209	DN50	DN25	301	685	1535	601	163 pc Ø12x1mm	
TSHXA-06-209-100-54F	W-038084	DN100	Ø209	DN50	DN25	301	685	1535	601	163 pc Ø12x1mm	
TSHXA-06-209-101-54F	W-038085	Ø101.6	Ø209	DN50	DN25	301	685	1522	595	163 pc Ø12x1mm	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank	
TSHXA-06-209-150-43F	W-038086	DN150	Ø209	DN40	DN25	298	685	1535	601	163 pc Ø12x1mm	
TSHXA-06-209-125-43F	W-038087	DN125	Ø209	DN40	DN25	298	685	1535	601	163 pc Ø12x1mm	
TSHXA-06-209-100-43F	W-038088	DN100	Ø209	DN40	DN25	298	685	1535	601	163 pc Ø12x1mm	
TSHXA-06-209-101-43F	W-038089	Ø101.6	Ø209	DN40	DN25	298	685	1522	595	163 pc Ø12x1mm	



All dimensions in millimeters.



TSHXA-08-209-40		40 barg / 85°C		2.3 bar[g] / 136°C		Maximum pressure / temperature				
		Volume 28.5 liters		Volume 21.5 liters		316L Eccentric		Dry weight 103 kg		
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-08-209-150-80	W-037974	DN150	Ø209	DN80	DN40	272	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-125-80	W-037975	DN125	Ø209	DN80	DN40	272	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-100-80	W-037976	DN100	Ø209	DN80	DN40	272	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-101-80	W-037977	Ø101.6	Ø209	DN80	DN40	272	955	1937	740	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-08-209-150-76	W-037978	DN150	Ø209	Ø76.1	Ø38	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-125-76	W-037979	DN125	Ø209	Ø76.1	Ø38	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-100-76	W-037980	DN100	Ø209	Ø76.1	Ø38	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-101-76	W-037981	Ø101.6	Ø209	Ø76.1	Ø38	266	955	1937	740	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-08-209-150-65	W-037982	DN150	Ø209	DN65	DN40	272	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-125-65	W-037983	DN125	Ø209	DN65	DN40	272	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-100-65	W-037984	DN100	Ø209	DN65	DN40	272	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-101-65	W-037985	Ø101.6	Ø209	DN65	DN40	272	955	1937	740	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-08-209-150-63	W-037986	DN150	Ø209	Ø63.5	Ø38	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-125-63	W-037987	DN125	Ø209	Ø63.5	Ø38	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-100-63	W-037988	DN100	Ø209	Ø63.5	Ø38	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-101-63	W-037989	Ø101.6	Ø209	Ø63.5	Ø38	266	955	1937	740	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-08-209-150-50	W-037990	DN150	Ø209	DN50	DN25	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-125-50	W-037991	DN125	Ø209	DN50	DN25	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-100-50	W-037992	DN100	Ø209	DN50	DN25	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-101-50	W-037993	Ø101.6	Ø209	DN50	DN25	266	955	1937	740	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-08-209-150-51	W-037994	DN150	Ø209	Ø51	Ø25	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-125-51	W-037995	DN125	Ø209	Ø51	Ø25	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-100-51	W-037996	DN100	Ø209	Ø51	Ø25	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-101-51	W-037997	Ø101.6	Ø209	Ø51	Ø25	266	955	1937	740	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-08-209-150-40	W-037998	DN150	Ø209	DN40	DN25	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-125-40	W-037999	DN125	Ø209	DN40	DN25	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-100-40	W-038000	DN100	Ø209	DN40	DN25	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-101-40	W-038001	Ø101.6	Ø209	DN40	DN25	266	955	1937	740	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-08-209-150-38	W-038002	DN150	Ø209	Ø38	Ø25	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-125-38	W-038003	DN125	Ø209	Ø38	Ø25	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-100-38	W-038004	DN100	Ø209	Ø38	Ø25	266	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-101-38	W-038005	Ø101.6	Ø209	Ø38	Ø25	266	955	1937	740	163 pc Ø12x1mm



TSHXA-08-209-40-F		40 barg / 85°C		2.3 bar[g] / 136°C			Maximum pressure / temperature			
		Volume 28.5 liters		Volume 21.5 liters			316L Eccentric		Dry weight 103 kg	
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-08-209-150-82F	W-038090	DN150	Ø209	DN80	DN40	309	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-125-82F	W-038091	DN125	Ø209	DN80	DN40	309	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-100-82F	W-038092	DN100	Ø209	DN80	DN40	309	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-101-82F	W-038093	Ø101.6	Ø209	DN80	DN40	309	955	1937	740	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-08-209-150-70F	W-038094	DN150	Ø209	DN65	DN40	304	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-125-70F	W-038095	DN125	Ø209	DN65	DN40	304	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-100-70F	W-038096	DN100	Ø209	DN65	DN40	304	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-101-70F	W-038097	Ø101.6	Ø209	DN65	DN40	304	955	1937	740	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-08-209-150-54F	W-038098	DN150	Ø209	DN50	DN25	301	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-125-54F	W-038099	DN125	Ø209	DN50	DN25	301	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-100-54F	W-038100	DN100	Ø209	DN50	DN25	301	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-101-54F	W-038101	Ø101.6	Ø209	DN50	DN25	301	955	1937	740	163 pc Ø12x1mm
Stock number	Drawing number	P1/P2	A	S1	S2	B	C	D	E	Tube bank
TSHXA-08-209-150-43F	W-038102	DN150	Ø209	DN40	DN25	298	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-125-43F	W-038103	DN125	Ø209	DN40	DN25	298	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-100-43F	W-038104	DN100	Ø209	DN40	DN25	298	955	1950	746	163 pc Ø12x1mm
TSHXA-08-209-101-43F	W-038105	Ø101.6	Ø209	DN40	DN25	298	955	1937	740	163 pc Ø12x1mm