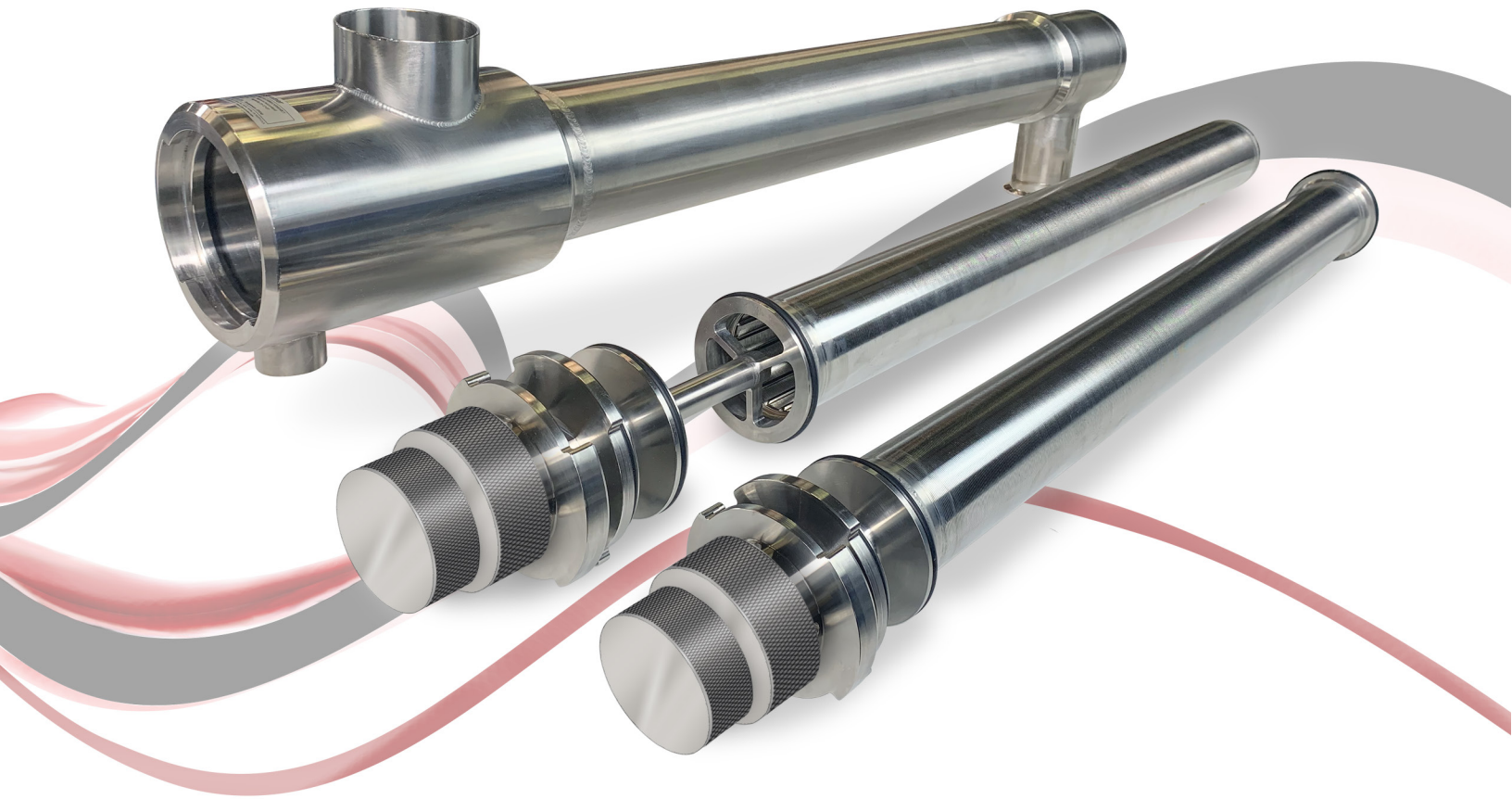
SafeStrainer



PROCESSTEC

GET TOMORROW'S TECHNOLOGY TODAY

SafeStrainer by PROCESSTEC

INTRODUCTION

The SafeStrainer is a sanitary process cleaning component for a diverse range of applications. The SafeStrainer was designed to eliminate the potential hazards often associated with high pressure or high temperature systems.

Fig. 1

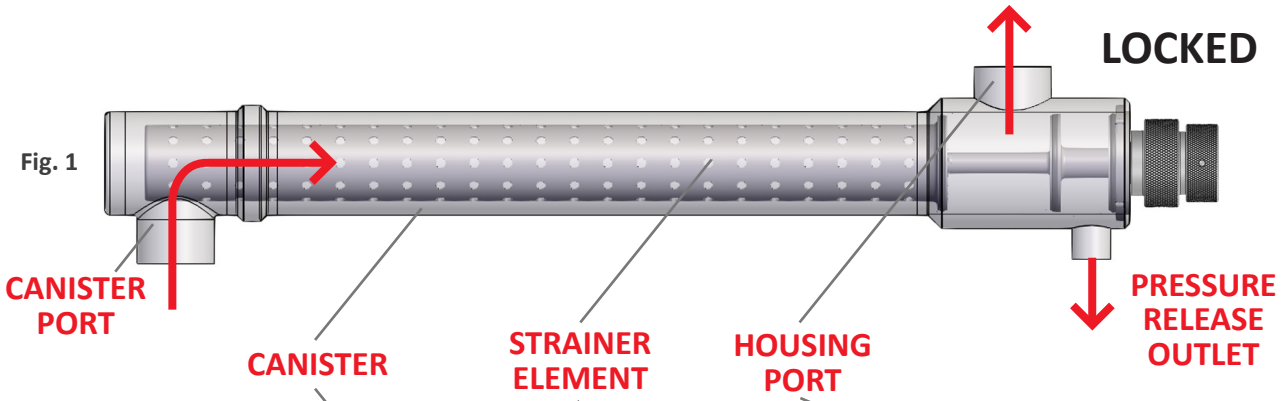
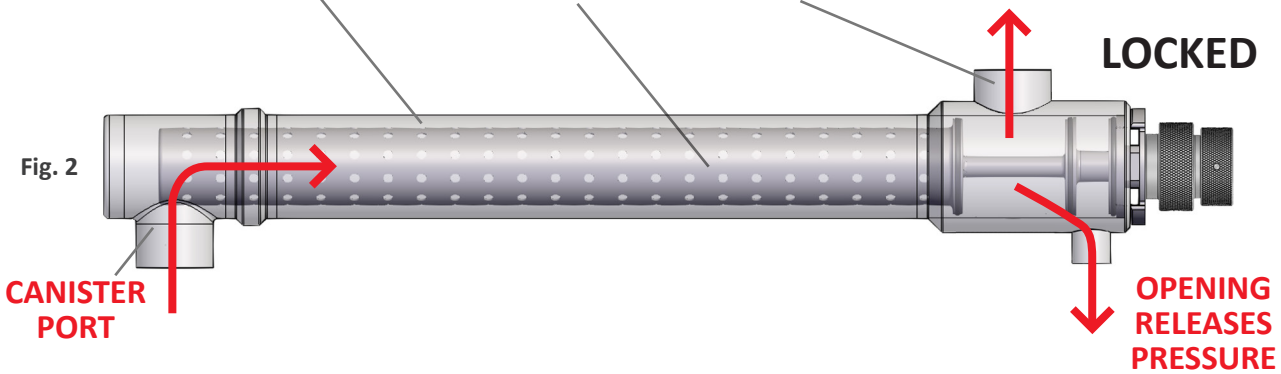


Fig. 2



FILTER ELEMENT OPTIONS

The SafeStrainer is completely customizable to suit your specific application.

Filter Elements are available in many sizes, from as small as 2 um (Mesh), to as large as 5000 um (Perforated).

M Mesh

Fig. 3

W Wedgewire

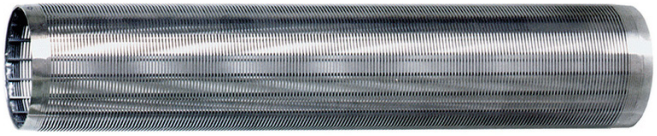


Fig. 4

P Perforated Cylinder

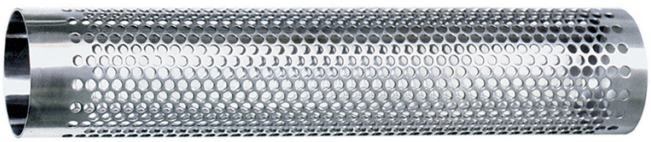


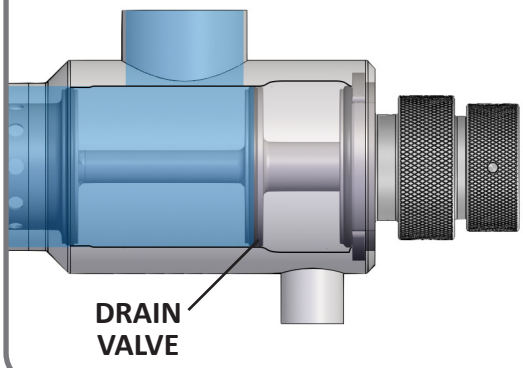
Fig. 5

SafeStrainer Unlocking Steps

HOW THE SAFE LOCK WORKS

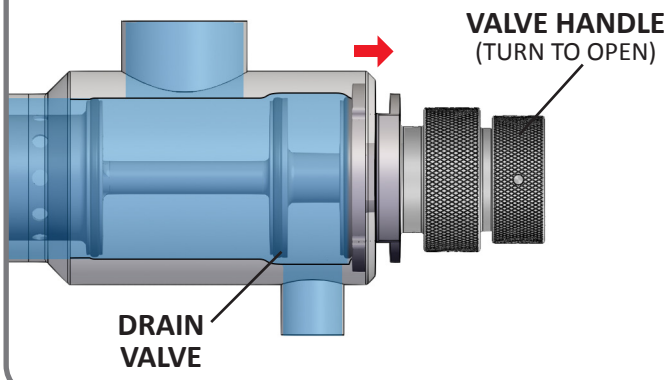
1 - PRODUCTION

Strainer Locked,
Drain Valve Closed,
Ready for Production



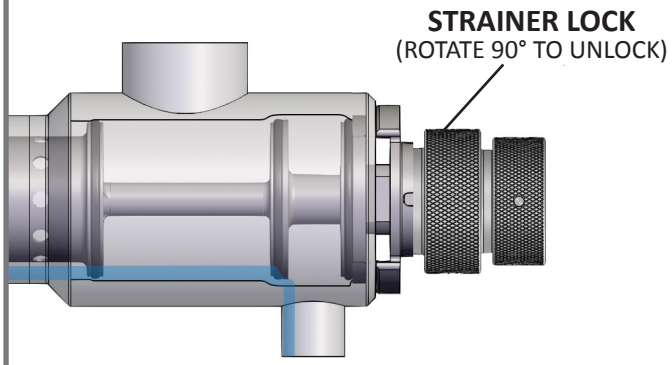
2 - DRAINING

Strainer Locked,
Drain Valve Opened,
Pressure Released to Drain



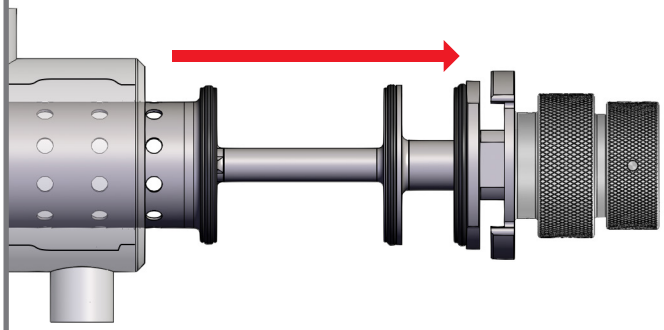
3 - UNLOCKING

Strainer Drained,
Drain Valve Opened,
Ready for Unlocking



4 - REMOVING

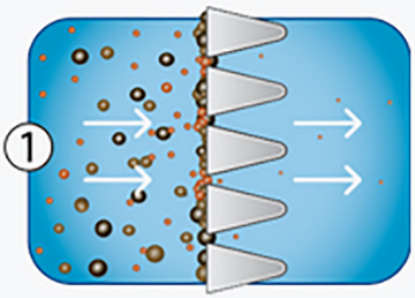
Strainer Unlocked,
Ready for Removal



SafeStrainer Designated Use

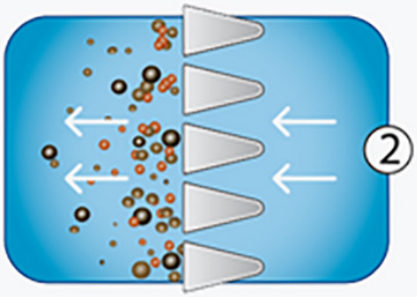
WEDGEWIRE

Fig. 6 Filtering



FILTER CYCLE: during the filter cycle, the solids are deposited on the smooth surface. This 'cake' acts as an extra filter for finer particles. The fines that slip through do not become lodged in the conical slots.

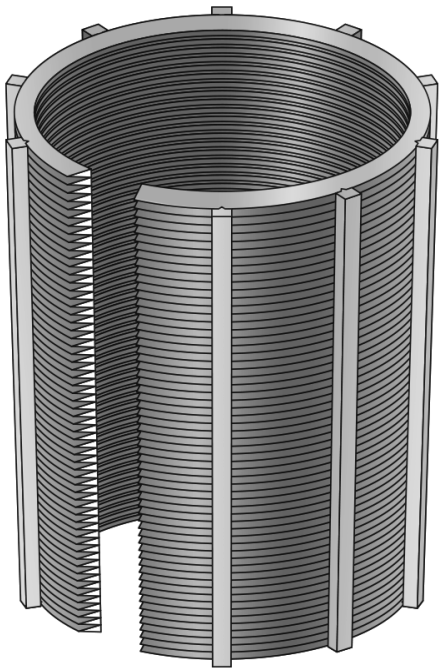
Fig. 7 Backwashing



BACKWASH CYCLE: by reversing the flow, the cake and dirt are removed from the filter surface.

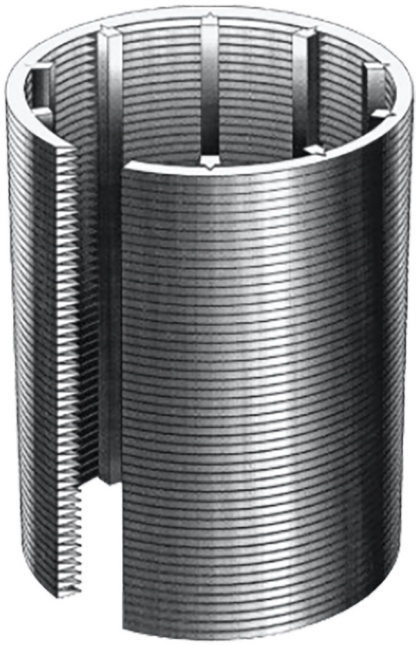
INSIDE FLUSH WEDGEWIRE CYLINDER

Fig. 8



OUTSIDE FLUSH WEDGEWIRE CYLINDER

Fig. 9



SafeStrainer Housing Flow Directions

INSIDE TO OUTSIDE FLUSH

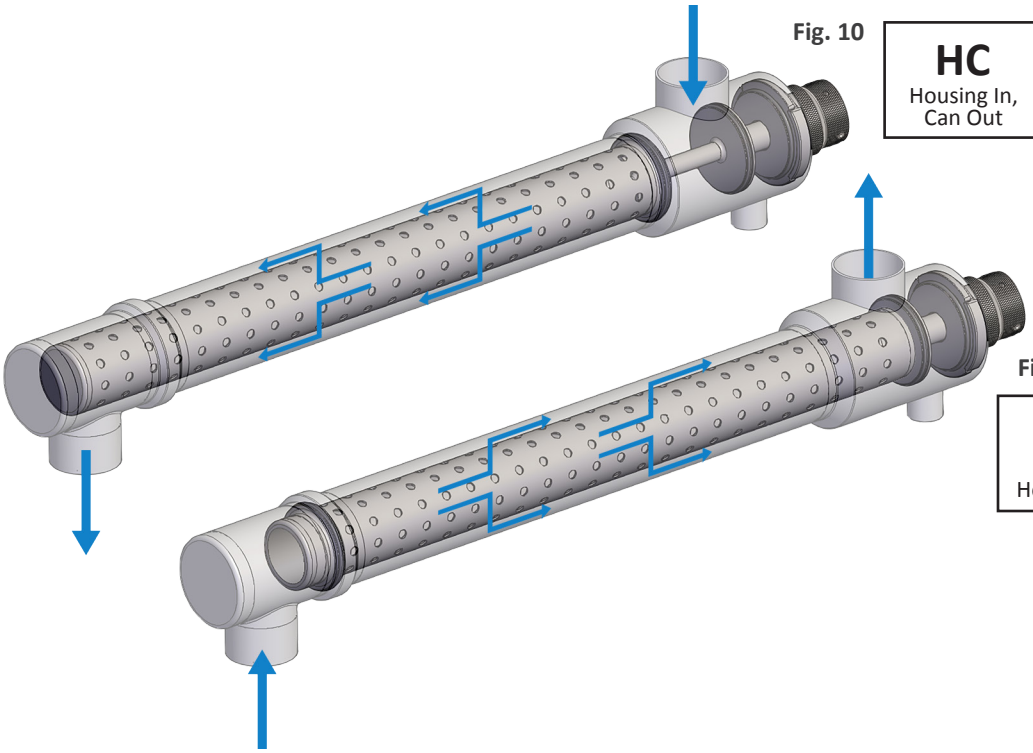


Fig. 10

HC	I
Housing In, Can Out	Inside to Outside

Fig. 11

CH	I
Can In, Housing Out	Inside to Outside

OUTSIDE TO INSIDE FLUSH

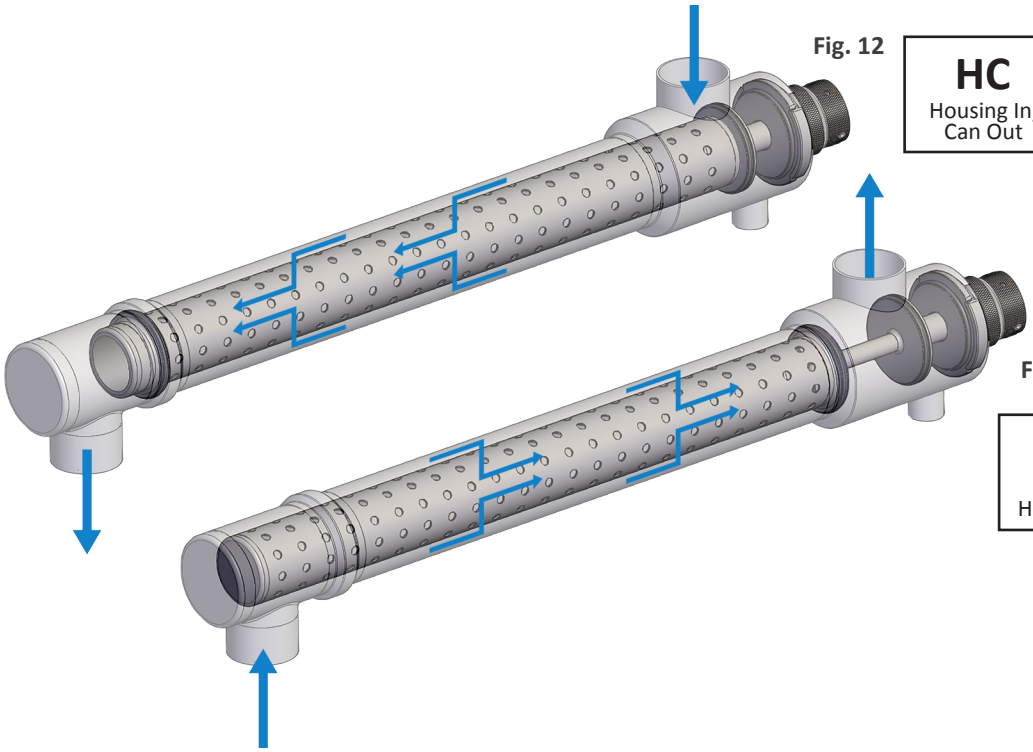


Fig. 12

HC	O
Housing In, Can Out	Outside to Inside

Fig. 13

CH	O
Can In, Housing Out	Outside to Inside

SafeStrainer Configuration Chart

CONFIGURATION CHART

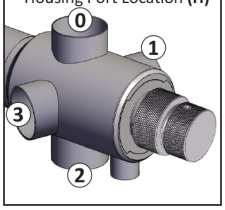
Below is a Configuration Chart showing all the available options for the **PROCESSTEC SafeStrainer**. It is formatted in such a way that each unique configuration can be identified by the specific code on the part using this chart as a quick reference guide.

Examples of the formatting would be: **1HCOW5EC25BWC25BWH010**

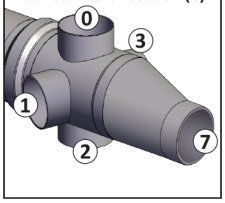
2CHIP5000HC4051C4051C325

1 SafeStrainer Size	2 Housing Flow Direction	3 Incidental Filter Flow	4 Filter Element	5 Gap / Pore Size	6 Elastomers	7 Housing Port	8 Housing Process Connection	9 Canister Port	10 Canister Process Connection	11 Housing Port Arrangement	12 Canister Port Arrangement	13 Pressure
1 DN25 - 50 1" - 2"	HC Housing In, Can Out	O Outside to Inside	M Mesh	5 5um (M)	F FKM	C10 OD1"	BW Butt Weld	C10 OD1"	BW Butt Weld	H0 Housing Position (per graphic)	C0 Canister Position (per graphic)	10 10 bar Pressure
2 DN65 - 100 2.5" - 4"	CH Can In, Housing Out	I Inside to Outside	W Wedgewire	10 10um (M)	E EPDM	C15 OD1.5"	TC Tri Clamp	C15 OD1.5"	TC Tri Clamp	H1 Housing Position (per graphic)	C1 Canister Position (per graphic)	25 25 bar Pressure
3 DN125 - 150 5" - 6"			P Perforated Cylinder	25 25um (W)	P PERLAST	C20 OD2"	64 DIN 11864 (Groove End)	C20 OD2"	64 DIN 11864 (Groove End)	H2 Housing Position (per graphic)	C2 Canister Position (per graphic)	
				50 50um (W)	H HNBR	C25 OD2.5"	51 DIN 11851 (Groove End)	C25 OD2.5"	51 DIN 11851 (Groove End)	H3 Housing Position (per graphic)	C3 Canister Position (per graphic)	
				100 100um (W)		C30 OD3"		C30 OD3"			C7 Canister Position (per graphic)	
				150 150um (W)		C40 OD4"		C40 OD4"				
				200 200um (W)		C50 OD5"		C50 OD5"				
				250 250um (W)		C60 OD6"		C60 OD6"				
				300 300um (W)		A25 DN25		A25 DN32				
				500 500um (W)		A32 DN32		A40 DN40				
				800 800um (P)		A40 DN40		A50 DN50				
				1000 1000um (P)		A50 DN50		A65 DN65				
				1500 1500um (P)		A65 DN65		A80 DN80				
				2000 2000um (P)		A80 DN80		A100 DN100				
				3000 3000um (P)		A100 DN100		A125 DN125				
				5000 5000um (P)		A125 DN125		A150 DN150				
						A150 DN150		B10 1"				
						B10 1"		B15 1.5"				
						B15 1.5"		B20 2"				
						B20 2"		B25 2.5"				
						B25 2.5"		B30 3"				
						B30 3"		B40 4"				
						B40 4"		B60 6"				
						B60 6"						

Housing Port Location (H)



Canister Port Location (C)



Customized Solutions are available upon request.

SafeStrainer Sizing Chart

SIZING CHART

Safe Strainer Size	Code	Size	DIN Norm	Old Norms	Outside Dia.	WS
1	C10	OD1.0''	11866_C	OD, ASME, A270	25.4mm	1.65mm
	C15	OD1.5''	11866_C	OD, ASME, A270	38.1mm	1.65mm
	C20	OD2.0''	11866_C	OD, ASME, A270	50.8mm	1.65mm
2	C25	OD2.5''	11866_C	OD, ASME, A270	63.5mm	1.65mm
	C30	OD3.0''	11866_C	OD, ASME, A270	76.2mm	1.65mm
	C40	OD4.0''	11866_C	OD, ASME, A270	101.6mm	2.11mm
3	C50	OD5.0''	11866_C	OD, ASME, A270	127.0mm	2.11mm
	C60	OD6.0''	11866_C	OD, ASME, A270	152.4mm	2.11mm
1	A25	DN25	11866_A	DIN 11850	28.0mm	1.5mm
	A32	DN32	11866_A	DIN 11850	34.0mm	1.5mm
	A40	DN40	11866_A	DIN 11850	40.0mm	1.5mm
	A50	DN50	11866_A	DIN 11850	52.0mm	1.5mm
2	A65	DN65	11866_A	DIN 11850	70.0mm	2.0mm
	A80	DN80	11866_A	DIN 11850	85.0mm	2.0mm
	A100	DN100	11866_A	DIN 11850	104.0mm	2.0mm
3	A125	DN125	11866_A	DIN 11850	129.0mm	2.0mm
	A150	DN150	11866_A	DIN 11850	154.0mm	2.0mm
1	B10	1.0''	11866_B	ISO-2037	42.4mm	2.0mm
	B15	1.5''	11866_B	ISO-2037	48.3mm	2.0mm
	B20	2.0''	11866_B	ISO-2037	60.3mm	2.0mm
2	B25	2.5''	11866_B	ISO-2037	76.1mm	2.0mm
	B30	3.0''	11866_B	ISO-2037	88.9mm	2.0mm
3	B40	4.0''	11866_B	ISO-2037	114.3mm	2.0mm
	B60	6.0''	11866_B	ISO-2037	139.7mm	2.6mm

Some of the Industries we serve

The **PROCESSTEC** **SafeStrainer** is designed for use in the Food Industry, and is entirely constructed according to 3A requirements.

Maximum Pressure: 25 bar (360 psi)
Units with pressures greater than 10 bar, require certification.

Material: Stainless AISI-316

Default Elastomer: FKM

Assembling SafeStrainer *VIDEO*

Disassembling SafeStrainer *VIDEO*

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