

Key Features

- 316 Stainless Steel, large area Z plate screen
- Ductile iron, NSF approved HFE coating
- Complies with AWWA C701 & C702

Standard Materials

Body: ASTM A536-65/45/12 ductile iron, fusion bonded, epoxy coated

Cover: 1045 Steel, fusion bonded, epoxy coated

Seal: Buna-N

Screen: 316 Stainless Steel

Drain Plug: 316 Stainless Steel

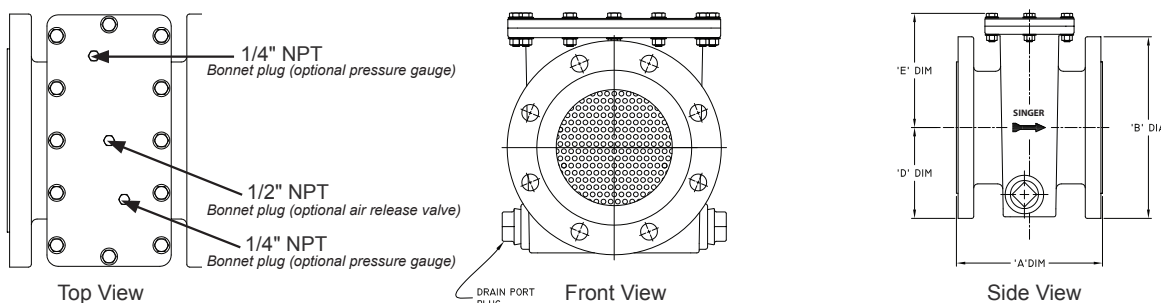
Product Overview

The Singer Model ZS Strainer is designed to protect control valves and pipelines from foreign matter and debris in the flow stream.

The Z plate screen design is excellent for providing a smooth laminar flow, which is ideal for locations ahead of automatic control valves.

The Z plate screen is manufactured in corrosion resistant Stainless Steel and allows for a large flow area. It is easily removed by taking off the top cover plate. It is also supplied with flushing ports on both sides of the strainer along with an air bleed connection and connections across the screen for the installation of a differential pressure gauge if required.

Product Line Drawing



Dimensions in inches 150 lb. / 300 lb. Flanged

Size	A' DIM		'B' DIA Flange OD		D' DIM		E' DIM	NPT Drain Plugs	Screen Perforation
	150 lb. Flanged	300 lb. Flanged	150 lb. Flanged	300 lb. Flanged	150 lb. Flanged	300 lb. Flanged			
3"	7.5	7.86	7.56	8.31	3.81	4.16	6.33	1.25"	0.16
4"	7.5	8.13	9.06	10.06	4.53	5.03	7.31	1.25"	0.16
6"	9	9.88	11.19	12.56	5.6	6.28	8.6	1.50"	0.16
8"	9	10	13.6	15.06	6.8	7.53	9.85	1.50"	0.16

Confirm availability and delivery of all sizes with factory.

Dimensions in millimetres PN10/ PN16 / PN25 Flanged

Size	A' DIM		'B' DIA Flange OD		D' DIM		E' DIM	NPT Drain Plugs	Screen Perforation
	PN10 / PN16 Flanged	PN 25 Flanged	PN10 / PN16 Flanged	PN 25 Flanged	PN10 / PN16 Flanged	PN 25 Flanged			
80 mm	190.5	199.6	192.0	211.1	96.8	105.7	160.8	32	4.1
100 mm	190.5	206.5	230.1	255.5	115.1	127.8	185.7	32	4.1
150 mm	228.6	251.0	284.2	319.0	142.2	159.5	218.4	32	4.1
200 mm	228.6	254.0	345.4	382.5	172.7	191.3	250.2	32	4.1

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Pressure Drop					
Size	usgpm	psi	Size	L/s	Kpa
3"	460	3.2	80mm	29	22.06
4"	800	2.3	100mm	50.4	15.8
6"	1800	2.2	150mm	113.5	15.17
8"	3100	2.4 *	200mm	195.5	16.55 *

* Estimated

Specifications

- The strainer shall be a Singer Model ZS, ANSI Class 150 (ANSI 300, ANSI Flanges drilled to PN 10/16/ 25 or 40) pressure rating/flange standard.
- The strainer body shall be constructed of ASTM A536-65/45/12 ductile iron or equivalent.
- The cover shall be constructed of 1045 Steel or equivalent.
- The strainer shall have a protective NSF approved HFE coating, externally and internally that shall conform to ANSI/AWWA C116/A21.16 (current version) specification. No matching of external parts after final coating will be acceptable to ensure continuous coating surface throughout the entire strainer.
- Strainer screen shall be a 316 Stainless Steel Z plate, drilled/punched with holes to give greater than the pipe area to minimize head loss.
- It shall be removable through the top cover without the need for any special tools. Flat or curved screen will not be acceptable.
- All external fasteners shall be 18-8 Stainless Steel with 18-8 Stainless Steel washers. Mild steel studs or bolts will not be acceptable.
- Drain ports and connection tapplings will be supplied with 316 stainless steel plugs.

Ordering Instructions

Please use the following codes when you order this product:

Strainer	Size	Material	Flanges
AZS	003	D	A

Size	Code	Material	Code	End Connections	Code
3"	003	Ductile Iron	D	ANSI 150#	A
4"	004			ANSI 300#	B
6"	006			ISO PN16	K
8"	008			ISO PN25	L
80 mm	003				
100 mm	004				
150 mm	006				
200 mm	008				

Examples: AZS-003DA = ZS Strainer 3"-150#
 AZS-003DK = ZS Strainer 80 mm-ISO PN16