

# Engineering Specification

Job Name \_\_\_\_\_  
 Job Location \_\_\_\_\_  
 Engineer \_\_\_\_\_  
 Approval \_\_\_\_\_

Contractor \_\_\_\_\_  
 Approval \_\_\_\_\_  
 Contractor's P.O. No. \_\_\_\_\_  
 Representative \_\_\_\_\_

## LEAD FREE\*

# Cast Iron Flanged End Wye Strainers

Model: 752, Class 250  
 752 SM, Class 250

Sizes: 1½" – 24", 2" – 24" (752 SM Only)

The 752 and 752 SM wye strainers provide economical protection for costly pumps, meters, valve and other similar mechanical equipment by straining foreign matter from the piping system. Installation of a strainer before mechanical equipment can ensure trouble free service and avoid costly shutdowns for repair or replacement of equipment damaged by foreign matter.

Smart and Connected technology comes standard on the NEW 752 SM wye strainer with two pre-installed pressure sensors at the inlet and outlet of the strainer. These sensors monitor the pressure drop that occurs over time when a strainer screen becomes clogged by foreign particles. When the differential pressure across the strainer screen exceeds the preconfigured threshold, an alert is triggered to the customer informing that action is required.

The Sensor Monitoring Control Unit & Connection kit is required to activate the pressure monitoring capability and collect data. Without the connection kit, the sensors are passive components that do not communicate with any other device.

When equipped, the system can also enable automated blow-down to purge debris based on differential pressure thresholds, reducing the need for manual intervention. Real time data streaming is provided via RS-485 Modbus for integration with building automation systems (BAS) or through Wi-Fi to the Nexa platform.



Model 752

Model 752 SM

Call customer service if you need assistance with technical details.

PRESSURE/TEMPERATURE—NON-SHOCK	
752	
1½" - 12"	14" - 24"
500 psi @ -20°F to 150°F	300 psi @ -20°F to 150°F
35 bar @ -29°C to 66°C	21 bar @ -29°C to 66°C
250 psi @ 450°F	200 psi @ 406°F
17 bar @ 232°C	14 bar @ 208°C
752 SM	
2" - 12"	14" - 24"
500 psi @ -20°F to 150°F	300 psi @ -20°F to 150°F
35 bar @ -29°C to 66°C	21 bar @ -29°C to 66°C
410 psi @ 275°F	257 psi @ 257°F
28 bar @ 125°C	18 bar @ 125°C

### Screens

MODEL	SIZE	STANDARD (WATER) STEAM RECOMMENDATION			
752	In.	MATERIAL	OPENING	MATERIAL	OPENING
752 & 752 SM	1½ – 4	304SS	.062 perf	304SS	.045 perf
752 & 752 SM	5 – 10	304SS	.125 perf	304SS	.045 perf
752 & 752 SM	10 and up	304SS	.125 perf	304SS	.062 perf

Alternative screens available by request.

### NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

## Available Features with Sensor Control Monitor Installed

- Real-time pressure monitoring and automated blowdown functionality
- Visual Display - Pressure and temperature data for each sensor, Screen Pressure differential, Screen fill percentage
- Data streaming via Modbus RS-485 Serial Communication [BAS] or Nexa Cloud Communication [Wi-Fi]
- Local alerts on fill exceeding threshold [LCD UI/UX and Dry Contact Closures]

## Alerts

- OLED Display
- BMS Alarm
- RS-485 MODBUS or Nexa Cloud via Wi-Fi



## Construction

- All covers have NPT blowoff outlet at Location C  
-Not normally furnished with plug. Plug available, specify at time of order.
- Recessed seat in the cover assures accurate screen alignment
- Bosses at the inlet and outlet flanges are provided for the gauge taps

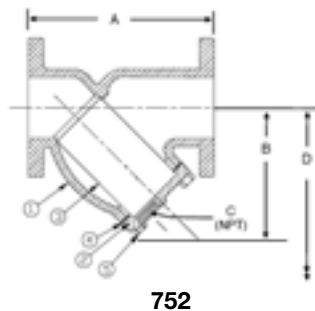
## Self-Cleaning

- Self-cleaning is accomplished by opening the plug or valve connected to the blowoff outlet
- When mounted in vertical piping, it is recommended to rotate the cover to position the blowoff at the lowest point.
- Automated blowdown functionality available on 752 SM when connected to Sensor Control Monitor (sold separately)

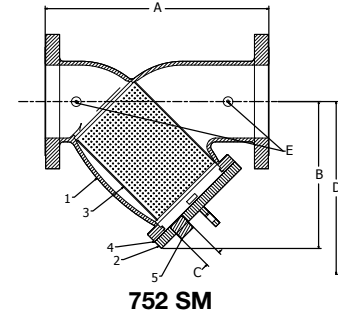
## Materials

BILL OF MATERIAL - 752		
ITEM	DESCRIPTION	MATERIAL
1	Body	Cast Iron ASTM A126-B
2	Cover **	Cast Iron ASTM A126-B
3	Screen	304 SS
4	Gasket	Non-Asbestos
5	Hex Head Cap Screws	SAE J429 Gr. 5
6	Pressure Sensor	Mixed composite
7	Motorized Ball Valve (752 SM Automated Blowdown)	Nickel-plated Lead Free Brass

\*\* Cover may be manufactured from equivalent grade plate material



752



752 SM

## Dimensions and Weights

SIZE	DIMENSIONS						WEIGHT				CV (GPM)	
	A		B		C		E Sensor Port		lbs.	kgs.	Strainer	Automated Blowdown Ball Valve
in.	in.	mm	in.	mm	in.	mm	in.	mm				
1½	8½/16	204	4¾	121	½	15	⅜	3	24	10.9	42	-
2	9⅝/16	237	6	152	½	15	⅜	3	26	12	66	15
2½	11¼/16	281	7⅞	181	1	25	⅜	3	40	18	100	100
3	12⅝/16	321	9⅞	232	1¼	32	⅜	3	59	26.8	140	170
4	15⅝/16	397	10⅞	276	1½	40	⅜	3	93	42	245	260
5	18¼	464	12⅝/16	329	2	50	⅜	3	146	66	400	450
6	20⅞/16	512	14½	368	2	50	⅜	3	194	88	600	450
8	25⅝/16	638	16⅞/16	418	2	50	⅜	3	316	143	1000	450
10	29⅞/16	739	21	533	2	50	⅜	3	475	215	1580	450
12	33¾	857	25	635	2	50	⅜	3	750	3740	2200	450
14	38¾	984	28¾	730	2	50	⅜	3	908	412	3200	450
16	44⅞/16	1128	29⅞/16	752	2	50	⅜	3	1135	515	4900	450
18	47¾	1213	34⅞/16	881	2	50	⅜	3	2400	1090	6100	450
20	56	1422	39	991	2	50	⅜	3	3350	1522	8000	450
24	57½	1461	45	1143	2	50	⅜	3	4705	2138	11000	450

Apply for Certified Drawings.



A WATTS Brand

USA: T: (800) 334-6259 • MuellerSteam.com  
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