

Engineering Specification

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

LEAD FREE*

Cast LOCXEND™

Wye Strainers

Model: 758G, 758G SM

Sizes: 2" – 12" (50 – 300 mm)

The 758G and 758G SM LOCXEND™ wye strainers provide economical protection for costly pumps, meters, valves, and similar mechanical equipment by straining foreign matter from the piping system. The LOCXEND™ wye strainers are designed for installation in grooved end piping systems.

Smart and Connected technology comes standard on the 758G 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 pre-configured 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 758G



Model 758G SM

Call customer service if you need assistance with technical details

PRESSURE/TEMPERATURE - NON-SHOCK	
758G	
3/4" - 12"	14" - 24"
640 psi @ 100°F	640 psi @ 100°F
44 bar @ 38°C	44 bar @ 38°C
150 psi @ 565°F	150 psi @ 565°F
10 bar @ 296°C	10 bar @ 296°C
758G SM	
2" - 12"	14" - 24"
200 psi @ -20°F to 150°F	150 psi @ -20°F to 150°F
14 bar @ -29°C to 66°C	10 bar @ -29°C to 66°C
125 psi @ 32°F to 248°F	100 psi @ 32°F to 248°F
9 bar @ 0°C to 120°C	7 bar @ 0°C to 120°C

Note: Pressure/Temperature can be limited by gasket material. Consult factory.

Screens

MODEL	SIZE	STANDARD (WATER)		STEAM RECOMMENDATION	
		MATERIAL	OPENING	MATERIAL	OPENING
758G & 758G SM	2 – 4	304SS	.062 perf	304SS	.045 perf
758G & 758G SM	5 – 8	304SS	.125 perf	304SS	.045 perf
758G & 758G 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.

Mueller Steam Specialty product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Mueller Steam Specialty Technical Service. Mueller Steam Specialty reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Mueller Steam Specialty products previously or subsequently sold.

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Available Features with Sensor Control Monitor Installed

- Real-time pressure monitoring and automated blow-down 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

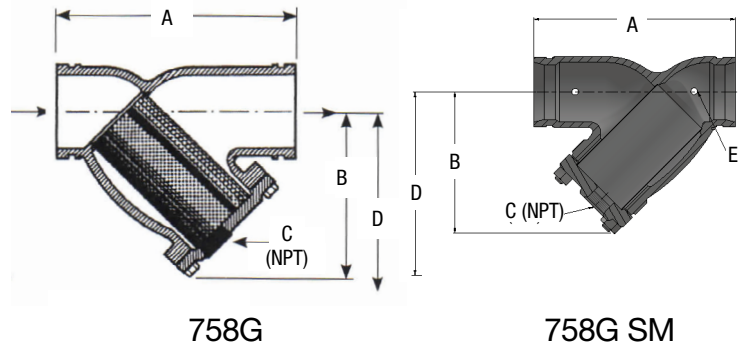
Alerts

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



Construction

- All covers have NPT blow-off 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.



Dimensions and Weights

SIZE	DIMENSIONS								PRESSURE SENSOR PORT		WEIGHT		CV (GPM)	
	A		B		C (NPT)		D (Screen Removal)		E (NPT)		Strainer		Automated Blow-down Ball Valve	
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb	kg		
2	7 7/8	200	5 1/4	133	1/2	13	7	178	1/8	3	12	5.44	70	15
2 1/2	10	254	6 1/2	165	1	25	9 3/4	248	1/8	3	18	8.16	110	100
3	10 1/8	257	7	178	1	25	10	254	1/8	3	23	10.40	140	100
4	12 1/8	308	8 1/4	210	1 1/2	38	12	305	1/8	3	42	19	245	260
5	15 5/8	397	11 1/4	286	2	51	17	432	1/8	3	80	36.30	400	450
6	18 1/2	470	13 1/2	343	2	51	20	508	1/8	3	112	50.80	600	450
8	21 5/8	549	15 1/2	394	2	51	22 3/4	578	1/8	3	205	93	1000	450
10	29 1/8	654	19 1/4	470	2	51	28	711	1/8	3	277	125.60	1580	450
12	33 3/4	762	22 7/8	552	2	51	30	762	1/8	3	470	213.20	2200	450

Self-cleaning

- Self-cleaning is accomplished by opening the plug or valve connected to the blow-off outlet
- When mounted in vertical piping, it is recommended to rotate the cover to position the blow off at the lowest point
- Automated blow-down functionality available on 758 SM when connected to Sensor Control Monitor (sold separately)

Materials

BILL OF MATERIAL	
DESCRIPTION	MATERIAL
Body	Ductile Iron SA 536 65-45-12
Cover**	Ductile Iron SA 536 65-45-12
Screen	304 SS
Gasket	Non-Asbestos
Hex Head Cap Screw	SAE J429 Gr. 5
Pressure Sensor	Mixed Composite
Motorized Ball Valve (758G SM Automated Blow-down)	Nickel-plated Lead Free Brass

**Cover may be manufactured from equivalent grade plate material



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