

**Model ML-MS  
Plate Strainers**

**Sizes 8", 10", 12", 16" and 20"  
Fabricated Steel**

**Technical  
Brief**

**DESCRIPTION**

**SERVICE RECOMMENDATION:** Dual-flange plate strainers are recommended for Recordall® turbo meters. Compactly designed to conserve space, 8", 10", 12", 16" and 20" sizes effectively strain foreign matter from pipe lines to protect and extend the service life of water meters.

**FEATURES:** Fabricated steel plate strainers exceed AWWA standards with an effective screening area to minimize flow restrictions and turbulence to meters. The straining area is double the inlet to turbo meter cases. Strainers also reduce turbine rotor bearing loading and resultant wear to maintain and extend accurate meter registration, by minimizing velocity profile distortion caused by changes in pipe direction or valving. For added flexibility, these strainers are compatible for all makes of meters. The screen is removable to clean the strainer in the service line.

**SCREENS:** Made of non-corrosive stainless steel to effectively strain all foreign matter, and can be easily removed and cleaned. Screen configuration directs debris to the bottom of the strainer to minimize flow restriction and velocity profile distortion.

**CONSTRUCTION:** The housing and cover are made of fabricated steel.

**HYDROSTATICALLY TESTED MATERIALS:** Housings are designed and individually tested to withstand 150 psi maximum working pressure.



STRAINER PIPE SIZE	HEAD LOSS P.S.I	@ G.P.M.
8	1.0	2000
10	1.1	3000
12	1.4	4000

**SPECIFICATIONS**

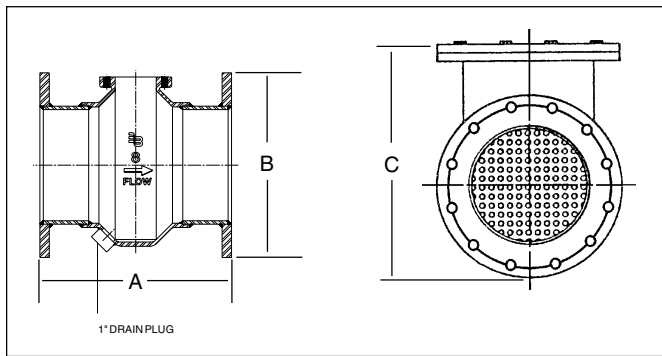
- Configuration** Dual round flange  
Compatible to any ASA 125 flange
- Maximum Working Pressure** 150 psi (10 bar)
- Screen Area Ratio** Minimum 2 to 1 ratio of meter inlet
- Screen** Removable in-line service
- Screen Perforations** 5/32" holes (8"-12")  
1/4" holes (16"-20")
- Recommended Applications** Recordall® Turbo meters and  
other makes of meters
- Protection** Internal and external 12-15 mils of  
fusion bonded epoxy coating
- Drain Plug** 1" NPT for 8"  
1-1/2" NPT for 10"  
2" NPT for 12"  
3" NPT for 16" and 20"

**MATERIALS**

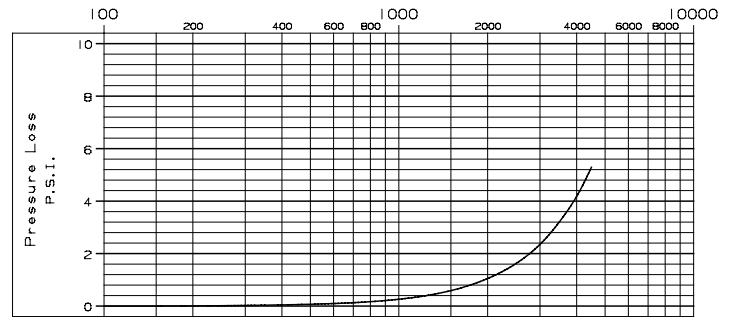
- Strainer Housing** Fabricated Steel
- Housing Cover** Fabricated Steel
- Housing Cover Gasket** Rubber
- Strainer Screen** Stainless Steel
- Housing Bolts** Carbon Steel (Zinc Plated)



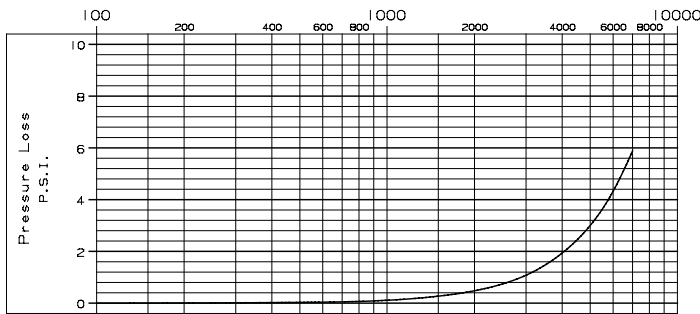
STRAINER TYPE	NOMINAL SIZE (INCHES)	DIMENSIONS			FLANGE Per AWWA C207 Class D			NET WEIGHT (IBS.)
		A	B	C	BOLT CIRCLE	NO. MOUNTING HOLES	BOLT SIZE	
Dual Round Flange	8" (200 mm)	14" (356 mm)	13 1/2" (343 mm)	16 1/4" (413 mm)	11 3/4" (298 mm)	8	3/4" (20 mm)	128 lbs. (58 Kg)
	10" (250 mm)	16" (406 mm)	16" (406 mm)	19 7/8" (505 mm)	14 1/4" (362 mm)	12	7/8" (22 mm)	180 lbs. (82 Kg)
	12" (300 mm)	19" (480 mm)	19" (480 mm)	23" (584 mm)	17" (432 mm)	12	7/8" (22 mm)	265 lbs. (120 Kg)
	16" (406 mm)	24 1/4" (616 mm)	23 1/2" (597 mm)	25 7/8" (657 mm)	21 1/4" (540 mm)	16	1" (25 mm)	420 lbs. (190 Kg)
	20" (500 mm)	24 1/4" (616 mm)	27 1/2" (699 mm)	29 3/8" (746 mm)	25" (635 mm)	20	1 1/8" (29 mm)	545 lbs. (247 Kg)



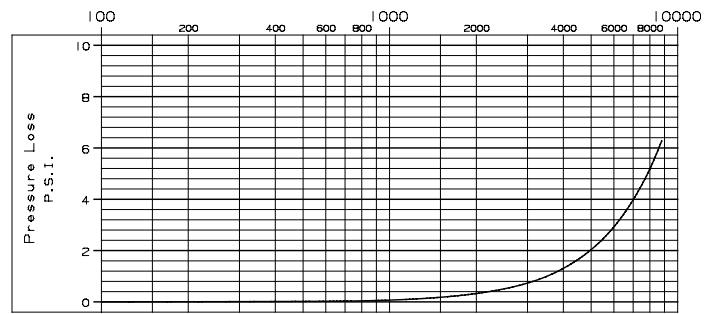
DUAL ROUND FLANGE



8" FLOW RATE VS. PRESSURE LOSS



10" FLOW RATE VS. PRESSURE LOSS



12" FLOW RATE VS. PRESSURE LOSS

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