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# MAG Flow Meter Product Line Overview

**Note: The standard offering is the SS304 Flange Type with 150# ANSI Flanges and PTFE liner.**

MAG Flow Meter								
Categories	Small size remote type	Small size integrated type	Large size remote type	SS304 Flange type	SS304 Sanitary type	SS304 Insertion type	Battery powered	Battery powered with GPRS
Pressure	230 PSIG, 1.6 Mpa typical, others available				230 PSIG, 1.6 Mpa	230 PSIG, 1.6 Mpa	230 PSIG, 1.6 Mpa	
Size	1/8" to 10 feet in diameter				1/2" to 4" Sanitary	8" and above	1/2" to 12" Flange sizes	
Flange	ANSI B16.6 150# Standard, others available							
Power	24 VDC or 120 VAC						Battery	
Outputs	4-20 mA / pulse (frequency)							
Communication	RS-485							
Lining	PTFE standard with the following options Rubber, PFA, F46, or Polyurethane					Nylon (Probe)	PTFE, or Rubber, PFA, F46, or Polyurethane	
Fluid	For conductive liquids with conductivity greater than 5 µs/cm For reference note tap water has conductivity between 5 - 50 µs/cm							
Electrode	316L with the following optional electrode materials available: Hastelloy B or C, Titanium, Tantalum and Platinum-Iridium							
Protection	IP65 / IP67 / IP68							
Temperature	Ambient: -25 to 65 Deg C / Medium: PTFE lining 70 Deg C max							
Ex-proof	Yes							

## Standard SS304 Flange type stocked MAG meters

**Flow volume**: +282.92

**Unit**: FQH × 1 m<sup>3</sup>/h

**Flow velocity (FLS)**: Σ +00000013.5 m<sup>3</sup>

**Percentage (FQP)**

**Ratio of emptiness (MTP)**

**Forward and reverse intergrated volumes**

**Difference of forward and reverse**

**Alarm**

**Alarm indicator**

**Enter**

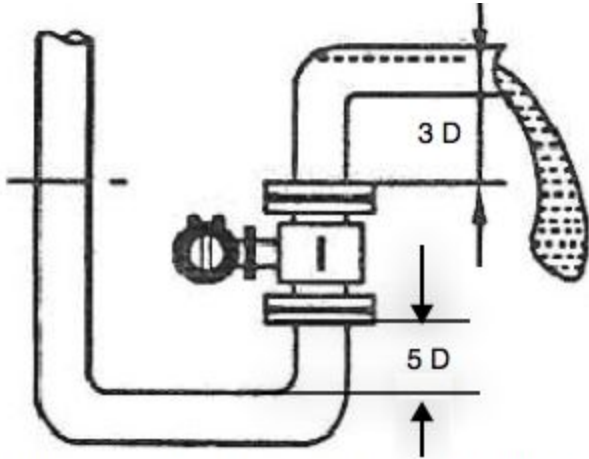
**Up ; plus1, page up**

**Down ; minus1, page down**

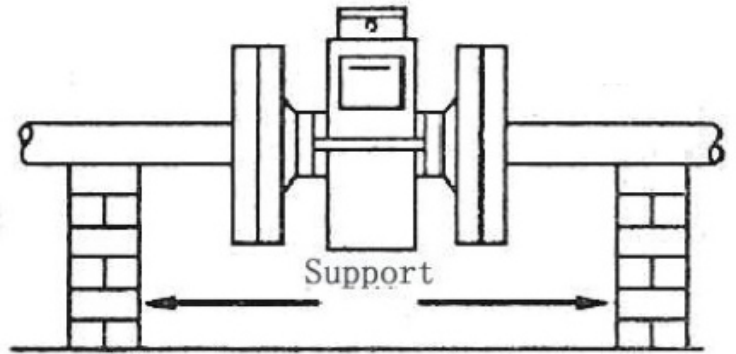
**Compound**

MAG FLOW METER, 1/2", 1", 2", 3", 4", 6", 8" & 12" ANSI PIPE FLANGE SIZE RANGES MAG MASS FLOW METERS FEATURE ACCURACIES OF 0.5% OF READING. AMAZING SENSITIVITY FOR CONDUCTIVITY ONLY REQUIRING A MINIMUM OF 5 MICROSIEMENS/CM (COMPARED TO MORE THAN 20 MICROSIEMENS/CM REQUIRED FOR CONVENTIONAL MAG METERS)

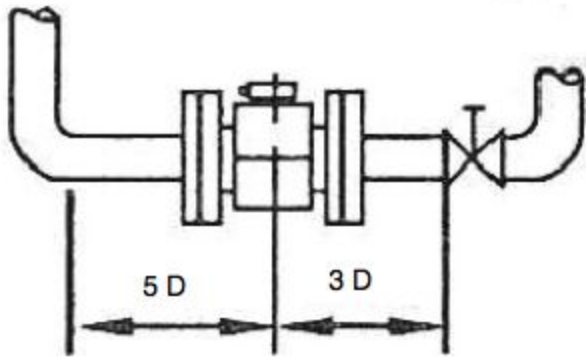
### Flow Inlet/Outlet Installation guidelines.



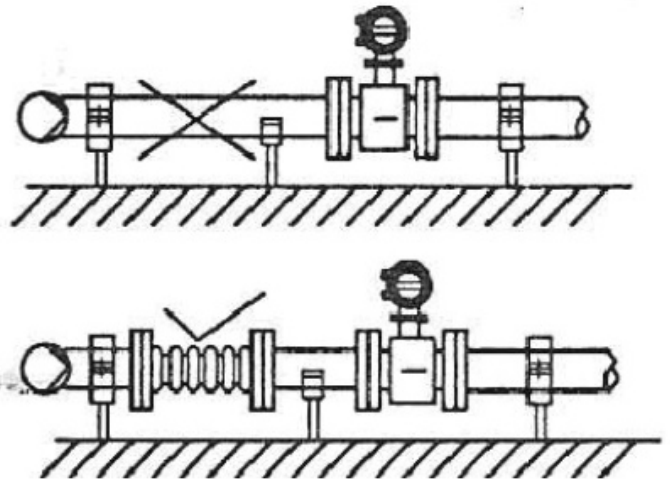
Install so that the meter is located so the outlet is at least 3 Pipe Diameters from any obstruction or elbow and the inlet is at least 5 Pipe Diameters and the meter is always submerged and there are no air bubbles



Install so that the meter is supported and not causing stress on the flanges.

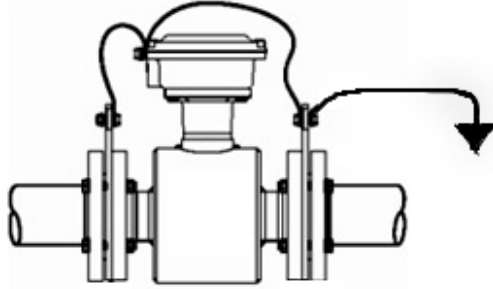


Install so that the meter is located so that the outlet is at least 3 Pipe Diameters from any obstruction or elbow and the inlet is at least 5 Pipe Diameters and the meter is always submerged and there are no air bubbles

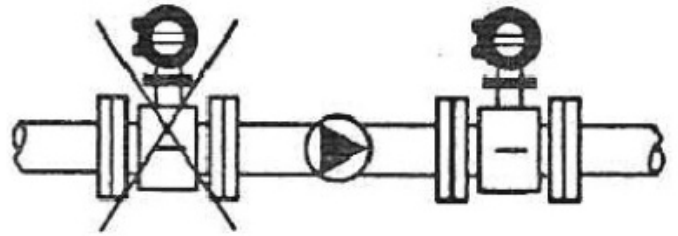


Isolate meter from vibration as shown

## VERY IMPORTANT



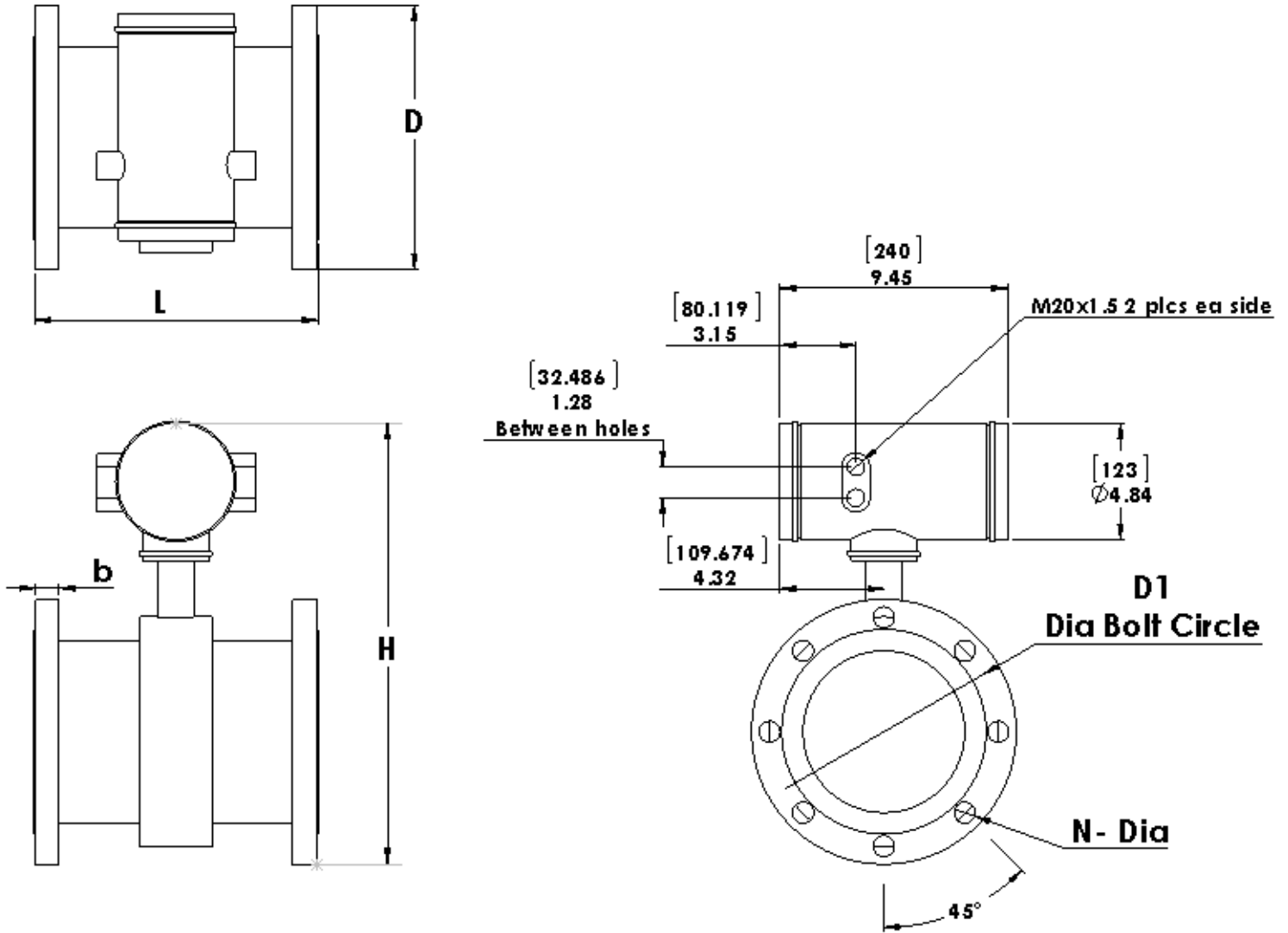
Install the MAG meter and connect the inlet and outlet to a proper GROUND line. This is the Solution Ground, called SG, and is very important for a stable ZERO FLOW measurement.



Do not install a MAG meter at the INLET of a pump as this will introduce bubbles. Instead, put it on the OUTLET with at least 5 diameters upstream.

**MAIN INSTALLATION REQUIREMENTS:** Never let a MAG meter run with no liquid or do not run the meter downstream of a pump that can inject bubbles, or downstream of a valve that can create bubbles in the flow. The BEST installation is shown in the upper left graphic. Grounding is very important for stable Zero Flow measurements.

METER DIMENSIONS



ANSI Size	DN Size	L		b		N-Dia		N (# Bolts)	H		D		Meter Weight	
		L (Pipe length)		C (flange thick)		Flange Bolt Dia			Meter height		Flange OD		Weight	
		inches	mm	inches	mm	inches	mm		inches	mm	inches	mm	Pounds	Kg
½"	15	7.874	200	0.551	14	2.559	65	4	7.480	190	3.740	95	13.2	6
¾"	20	7.874	200	0.630	16	2.953	75	4	7.874	200	4.134	105	15.4	7
1"	25	7.874	200	0.630	16	3.346	85	4	8.268	210	4.528	115	17.6	8
1 ¼"	32	7.874	200	0.709	18	3.937	100	4	8.661	220	5.512	140	19.8	9
1 ½"	40	7.874	200	0.709	18	4.331	110	4	9.055	230	5.906	150	22	10
2"	50	7.874	200	0.787	20	4.921	125	4	9.646	245	6.496	165	24.2	11
2 ½"	65	7.874	200	0.787	20	5.709	145	6	10.433	265	7.283	185	28.6	13
3"	80	7.874	200	0.787	20	6.299	160	6	11.024	280	7.874	200	33	15
4"	100	9.843	250	0.866	22	7.087	180	8	11.811	300	8.661	220	35.2	16
5"	125	9.843	250	0.866	22	8.268	210	8	12.992	330	9.843	250	41.8	19
6"	150	11.811	300	0.945	24	9.449	240	8	14.173	360	11.220	285	52.8	24
8"	200	13.780	350	0.945	24	11.614	295	12	16.535	420	13.386	340	61.6	28