

TECO Severe Application Meter (SAM)

Severe Application Solution

Overview

A magnetic flow meter with abrasion resistant ceramic trim that exceeds the capabilities of Alumina or Yttria Zirconia. Capable of withstanding a variety of corrosive slurries, acids, bases and solvents.

Application

Measurement of extremely abrasive slurries in Mining, Dredging, Fracking, and Oil and Gas Exploration (will not measure oil or gas).



Design

Size Range	4" – 12" with fully rated ASME B16.5 class 150 flange connections
Accuracy	1/2% of rate (1 – 10 M/sec scale) with DC signal converter 1% of rate (1 – 10 M/sec scale) with AC signal converter
Pressure Rating	285 psi at temperatures up to 100°F
Temperature Rating	400°F at pressure up to 200 psi
Max Temperature Gradient	(estimate 100° per min.)
Wetted Materials	Tungsten Carbide Electrodes Lining – Magnesia partially stabilized Zirconia (MgPSZ)
Environment	Temperature - 0°F to 140°F Submergence – IP68 / NEMA 6P Epoxy Paint Exterior

Model Number:

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Sensor Design	A	ABB - F&P - Kent Taylor	
	E	Endress & Hauser	
	F	Foxboro 2800	
	K	Krohne	
	R	Rosemount 8705 / 8707	
	T	Thompson Equipment Company	
Electronics Interface	Y	Yokogawa Admag	
	A	ABB - F&P - Kent Taylor	
	E	Endress & Hauser	
	F	Foxboro 96	
	K	Krohne	
	R	Rosemount 8712	
Lay Length	Y	Yokogawa Admag	
	S	ISO 13359 Lay Length	
Size	C	Custom (Designates the lay length prior to ISO 13359)	
	S	ISO 13359 Lay Length	
Size	015	1/2"	ANSI B16.5 or AWWA C207
	025	1"	ANSI B16.5 or AWWA C207
	032	1 1/4"	ANSI B16.5 or AWWA C207
	040	1 1/2"	ANSI B16.5 or AWWA C207
	050	2"	ANSI B16.5 or AWWA C207
	080	3"	ANSI B16.5 or AWWA C207
	100	4"	ANSI B16.5 or AWWA C207
	150	6"	ANSI B16.5 or AWWA C207
	200	8"	ANSI B16.5 or AWWA C207
	250	10"	ANSI B16.5 or AWWA C207
	300	12"	ANSI B16.5 or AWWA C207
	350	14"	ANSI B16.5 or AWWA C207
	400	16"	ANSI B16.5 or AWWA C207
	450	18"	ANSI B16.5 or AWWA C207
	500	20"	ANSI B16.5 or AWWA C207
	550	22"	ANSI B16.5 or AWWA C207
	600	24"	ANSI B16.5 or AWWA C207
	650	26"	ASME B16.47 Series A or AWWA C207
	700	28"	ASME B16.47 Series A or AWWA C207
	750	30"	ASME B16.47 Series A or AWWA C207
	800	32"	ASME B16.47 Series A or AWWA C207
	900	36"	ASME B16.47 Series A or AWWA C207
	950	38"	ASME B16.47 Series A or AWWA C207
	001	40"	ASME B16.47 Series A or AWWA C207
Flange	A	ANSI/ASME CI 150	285 psi MAX
	B	ANSI/ASME CI 300	740 psi MAX
	C	AWWA C207 Cl. D	150 psi MAX
	X	Special	Per Flange Spec
Flange Material	C	Carbon Steel	Flange and Exposed tube are Painted
	S	Stainless Steel 304 / 304L	No Paint
	X	Special Flange Material	
	W	Wafer	
Lining	E	PTFE	< 300°F (Not Full Vacuum Rated)
	T	Tefzel	< 266°F
	A	PFA	< 300°F
	L	Linatex	< 190°
	N	Neoprene	
	P	Polyurethane	
	H	Hard Rubber	
	C	Ceramic Pipe	
	B	Ceramic Brick	
Electrode	S	316 Stainless Steel	
	B	Hastelloy B-3	
	H	Hastelloy C-4 (Not Hastelloy C-276)	
	T	Tantalum	
	P	Platinum - 10% Iridium (Iridium for Strength)	
	C	Conductive Low Noise	
	A	Tungsten Carbide coated Hastelloy B-3	
	W	Billet Tungsten Carbide	
	X	Electrodeless	

www.teco-inc.com
(800) 528-8997 Phone
(504) 831-4664 Fax

Thompson Equipment Company, Inc.
125 Industrial Avenue
New Orleans, LA 70121



For 24 Hour Technical and Product Support contact us: (800) 528-8997 or support@teco-inc.com