Flow Meters

Cowell Machinery

M Series Positive Displacement Flow Meter



M-50-1 Meter with Register
Strainer & Air Eliminator

Characteristics

- Excellent stepless adjusting mechanism allows a micro adjustment of the meter
- High accuracy and repeatability over the widest range of flow; Superior accuracy at constant flow
- Low maintenance, no metal-to-metal contact in measuring chamber, long life service
- Low pressure loss, a true gravity flow meter
- Accuracy regardless of pressure fluctuations, temperature variation, viscosity
- Choice of aluminum, cast iron and stainless steel materials of construction

Construction



Technical Specification

Model	M-40-1	M-50-1	M-50H-1	M-80-1	M-80H-1	M-100-1	M-100H-1	M-150-1	M-150H-1
Size	40mm / 1.5”	50mm / 2 "		80mm / 3 "		100mm / 4 "		150mm / 6 "	
Flow Range (L/Min)	25-250	38-380	55-550	75-750	115-1150	130-1300	170-1700	225-2250	300-3000
Volume /Rev.	0.309L	0.681L		1.839L		5.102L		9.507L	
Max. Pressure	10Bar/150PSI							25Bar/350PSI	
Accuracy	±0.2%								
Repeatability	≤0.05%								
Standard Measurement	Liter / US Gallon/IMP Gallon								
Viscosity	30SSU~1,500,000SSU								

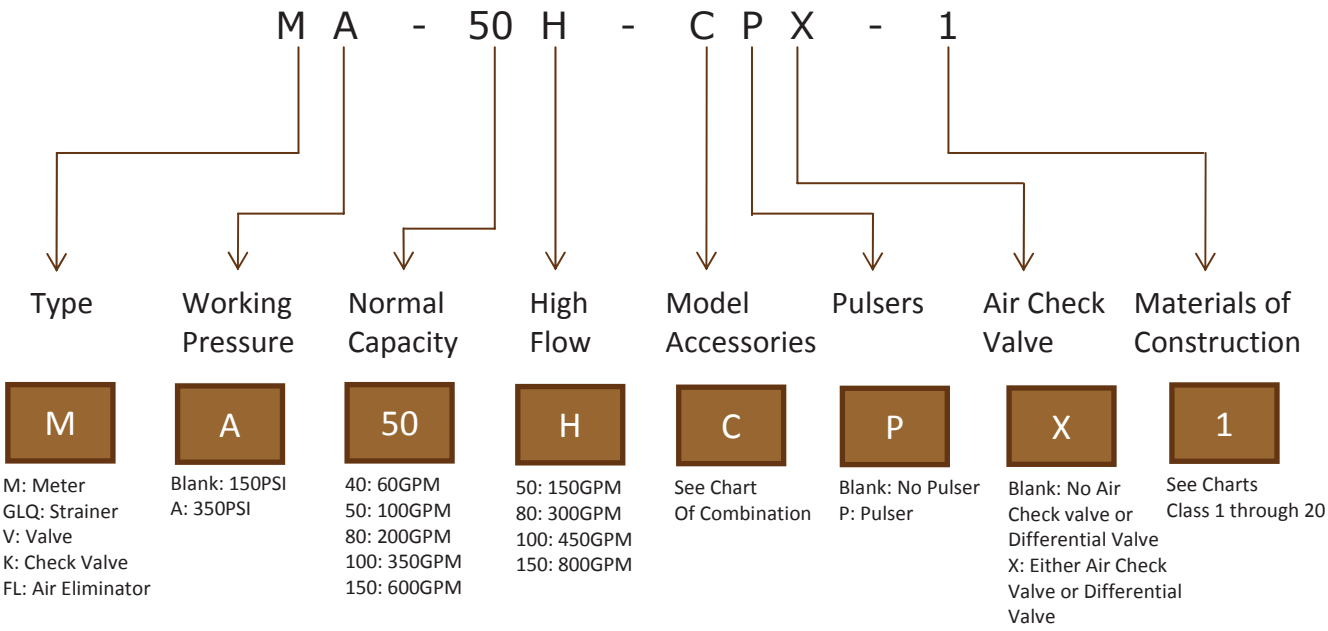
Note:4"&6" flange available for M-150/6" Meter.

Packaging Data

Model	M-40-1	M-50-1	M-80-1	M-100-1	M-150-1
Packaging	1 pc/Wooden Case				
Net Weight	23Kgs	26Kgs	40Kgs	70Kgs	130Kgs
Gross Weight	35Kgs	38Kgs	55Kgs	90Kgs	155Kgs
Size	53×48×53cm	53×48×53cm	58×50×61cm	76×64×72cm	80×65×79cm

M Series Positive Displacement Flow Meter

Model No. Description



Industries

- Automotive;
- Adhesives;
- Agriculture;
- Asphalt ;
- Aviation fueling ;
- Animal feeds; Beverage;
- Cosmetics ;
- Chemical processing;
- Concrete Add mixtures;
- Dairy; Liquid fertilizers;
- Food processing ;
- Fuel oil delivery;
- General industrial;
- Hydrocarbon processing;
- Liquefied gases;
- Lube oils; Marine;
- Paint and varnish;
- Petroleum marketing;
- Petroleum production ;
- Pharmaceutical;
- Printing ink;
- Pulp &paper;
- Refining commercial Solvents;
- Recycling Railroad ;
- Textile.

Application

- Refined petroleum products;
- Aviation gasolines and jet fuels;
- A wide variety of products such as: liquid sugars, corn syrup, corn sweetners, dextrose, fructose, sucrose, maltose, lactose, corn oil, soy bean oil, cotton seed oil, coconut oil;
- Treated waters (deionized, demineralized, and potable);
- Chlorinated solvents and general solvent metering;
- Acid pH liquids;
- Liquefied petroleum gas(LPG);
- Crude oil, also for heated and/or viscous liquids;
- Oil or water based latex products, polyester resins, and adhesives (neutral pH), also for metering herbicides and nitrogen fertilizer solutions;
- Herbicide;
- Sodium hydroxide (caustic) solutions, high sulfur crude oil (LACT and NOD) and other alkaline pH liquids;
- Abrasive liquids.