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Model S050 Turbine shown with standard Computer

Industrial Grade Metering Products

Stainless Steel Turbine
Model S050

Technical Specifications

6/00 ML-1241-7

Flow Ranges	**Temperatures (Turbine only without computer)**
Linear: 1 to 10 GPM (3.8 to 37.9 LPM)	Operational: -40° to +250°F (-40° to +121°C)
Extended: 0.5 to 10 GPM (1.9 to 37.9 LPM)	Storage: -40° to +250°F (-40° to +121°C)
Maximum Flow: 15 GPM (56.8 LPM)	
Fluid Velocity in Extended Range: 0.5-10.6 ft./sec. (0.2-3.2 m/sec.)	**Wetted Components**
	Housing: 316 Stainless Steel
	Journal Bearings: Ceramic (96% Alumina)
Performance*	
Linear Range: 10:1 @ ±2.0% of reading	Shaft: Tungsten Carbide
Extended Range: 20:1 @ ±5.0% of reading	Rotor and Supports: PVDF
Repeatability: ±0.1%	Retaining Rings: 316 Stainless Steel
Maximum Pressure Drop in 10:1 Range: 8 PSIG (0.55 bar)	
	Weight
Pressure Rating: 1,500 PSIG (103 bar)	Turbine only: 1.8 lbs.(0.8 kg)
Frequency Range: 45-450 Hz @ 1-10 GPM	Turbine with computer: 2.0 lbs.(1.0 kg)
Connections	**Shipping Weight**
Inlet and Outlet: 1/2 inch female NPT or ISO	Turbine only: 2.0 lbs.(1.0 kg)
Wrench Flat Size: 1-1/16 in. (27 mm)	Turbine with computer: 2.2 lbs.(1.0 kg)

- Field Replaceable Internal Parts
- High Accuracy
- Signal Output Capabilities
- Excellent Chemical Compatibility
- High Turndown Ratio
- Accessories easily upgrade meter

All turbines are Factory Mutual Approved and carry a Class 1, Division 1 Approval for hazardous environments.

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U.S. Patents 4,856,384; 4,700,579; and 5,046,370. Australian Patent 572,494. Canadian Patent 1,223,464. European Patent EU0147004. German Patent P3478494.2-08. Italian Patent 68074-BE/89.

* Results determined with 1 centistoke stoddard solvent test fluid at 70°F (21°C).

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Model S075 Turbine shown with standard Computer

Industrial Grade Metering Products

Stainless Steel Turbine
Model S075

Technical Specifications

6/00 ML-1242-6

Flow Ranges	**Temperatures** (Turbine only without computer)
Linear: 2 to 20 GPM (7.6 to 75.7 LPM)	Operational: -40° to +250°F (-40° to +121°C)
Extended: 1 to 20 GPM (3.8 to 75.7 LPM)	Storage: -40° to +250°F (-40° to+121°C)
Maximum Flow: 30 GPM (113.6 LPM)	
Fluid Velocity in Extended Range: 0.6-12.1 ft./sec. (0.2-3.7 m/sec.)	**Wetted Components**
	Housing: 316 Stainless Steel
Performance*	Journal Bearings: Ceramic (96% Alumina)
Linear Range: 10:1 @ ±1.5% of reading	Shaft: Tungsten Carbide
Extended Range: 20:1 @ ±5.0% of reading	Rotor and Supports: PVDF
Repeatability: ±0.1%	Retaining Rings: 316 Stainless Steel
Maximum Pressure Drop in 10:1 Range: 7.5 PSIG (0.5 bar)	**Weight**
Pressure Rating: 1,500 PSIG (103 bar)	Turbine only: 2.0 lbs.(1.0 kg)
Frequency Range: 37-370 Hz @ 2-20 GPM	Turbine with computer: 2.3 lbs.(1.1 kg)
Connections	**Shipping Weight**
Inlet and Outlet: 3/4 inch female NPT or ISO	Turbine only: 2.2 lbs.(1.0 kg)
Wrench Flat Size: 1-5/16 in. (33mm)	Turbine with computer: 2.4 lbs.(1.1 kg)
• Field Replaceable Internal Parts • High Accuracy • Signal Output Capabilities	• Excellent Chemical Compatibility • High Turndown Ratio • Accessories easily upgrade meter

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Model S100 Turbine shown with standard Computer

Industrial Grade Metering Products

Stainless Steel Turbine
Model S100

Technical Specifications

6/00 ML-1233-8

Flow Ranges		**Temperatures** (Turbine only without computer)
Linear:	5 to 50 GPM (18.9 to 190 LPM)	Operational: -40° to +250°F (-40° to +121°C)
Extended:	2.5 to 50 GPM (9.5 to 190 LPM)	Storage: -40° to +250°F (-40° to+121°C)
Maximum Flow: 75 GPM (284 LPM)		
Fluid Velocity in Extended Range: 0.93-18.6 ft./sec. (0.28-5.7 m/sec.)		**Wetted Components**
		Housing: 316 Stainless Steel
Performance*		Journal Bearings: Ceramic (96% Alumina)
Linear Range:	10:1 @ ±1.5% of reading	Shaft: Tungsten Carbide
Extended Range:	20:1 @ ±5.0% of reading	Rotor and Supports: PVDF
Repeatability:	±0.1%	Retaining Rings: 316 Stainless Steel
Maximum Pressure Drop in 10:1 Range:	10 PSIG (0.34 bar)	**Weight**
Pressure Rating:	1,500 PSIG (103 bar)	Turbine only: 2.4 lbs.(1.1 kg)
Frequency Range:	45-475 Hz @ 5-50 GPM	Turbine with computer: 2.6 lbs.(1.2 kg)
Connections		**Shipping Weight**
Inlet and Outlet:	1 inch female NPT or ISO	Turbine only: 2.6 lbs.(1.2 kg)
Wrench Flat Size:	1-5/8 in. (41mm)	Turbine with computer: 2.8 lbs.(1.3 kg)

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Model S150 Turbine shown with standard Computer

Industrial Grade Metering Products

Stainless Steel Turbine
Model S150

Technical Specifications

6/00 ML-1243-5

Flow Ranges	**Temperatures** (Turbine only without computer)
Linear: 10 to 100 GPM (38 to 380 LPM)	Operational: -40° to +250°F (-40° to +121°C)
Extended: 5 to 100 GPM (19 to 380 LPM)	Storage: -40° to +250°F (-40° to+121°C)
Maximum Flow: 150 GPM (568 LPM)	
Fluid Velocity in Extended Range: 0.8-15.9 ft./sec. (0.24-4.8 m/sec.)	**Wetted Components**
	Housing: 316 Stainless Steel
Performance*	Journal Bearings: Ceramic (96% Alumina)
Linear Range: 10:1 @ ±1.0% of reading	Shaft: Tungsten Carbide
Extended Range: 20:1 @ ±5.0% of reading	Rotor and Supports: PVDF
Repeatability: ±0.1%	Retaining Rings: 316 Stainless Steel
Maximum Pressure Drop in 10:1 Range: 4 PSIG (0.28 bar)	**Weight**
Pressure Rating: 1,500 PSIG (103 bar)	Turbine only: 4.0 lbs.(1.8 kg)
Frequency Range: 35-350 Hz @ 10-100 GPM	Turbine with computer: 4.2 lbs.(1.9 kg)
Connections	**Shipping Weight**
Inlet and Outlet: 1 1/2 inch female NPT or ISO	Turbine only: 4.4 lbs.(2.0 kg)
Wrench Flat Size: 2-3/8 in. (60mm)	Turbine with computer: 4.6 lbs.(2.1 kg)

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Model S200 Turbine shown with standard Computer

Industrial Grade Metering Products

Stainless Steel Turbine
Model S200

Technical Specifications

6/00 ML-1244-5

Flow Ranges		**Temperatures** (Turbine only without computer)	
Linear:	20 to 200 GPM (76 to 760 LPM)	Operational:	-40° to +250°F (-40° to +121°C)
Extended:	10 to 200 GPM (38 to 760 LPM)	Storage:	-40° to +250°F (-40° to+121°C)
Maximum Flow: 300 GPM (1,136 LPM)			
Fluid Velocity in Extended Range: 0.96-19.1 ft./sec. (0.29-5.8 m/sec.)		**Wetted Components**	
		Housing:	316 Stainless Steel
Performance*		Journal Bearings:	Ceramic (96% Alumina)
Linear Range:	10:1 @ ±1.0% of reading	Shaft:	Tungsten Carbide
Extended Range:	20:1 @ ±5.0% of reading	Rotor and Supports:	PVDF
Repeatability:	±0.1%	Retaining Rings:	316 Stainless Steel
Maximum Pressure Drop in 10:1 Range:	4 PSIG (0.28 bar)		
		Weight	
Pressure Rating:	1,500 PSIG (103 bar)	Turbine only:	6.3 lbs.(2.9 kg)
Frequency Range:	33-330 Hz @ 20-200 GPM	Turbine with computer:	6.6 lbs.(3.0 kg)
Connections		**Shipping Weight**	
Inlet and Outlet:	2 inch female NPT or ISO	Turbine only:	6.7 lbs.(3.1 kg)
Wrench Flat Size:	3 in. (75mm)	Turbine with computer:	7.0 lbs.(3.2 kg)

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