

Melt Flow Indexer MFI - 9

The Davenport MFI-9 is used to determine the melt flow rate of a polymer by extruding it in a molten state through a calibrated die using a reference weight.

The MFI-9 is a competitively priced product which categorically outclasses competition for accuracy, repeatability and reproducibility of results. The instrument is ideal for low volume users who require the same quality machine as larger corporations.

It is an independent, stand alone system, which contains its own embedded software. It can be set

up with up to five standard test set ups, which can be recalled instantly at the press of a button. All test procedures run sequentially, with the machine providing audible prompts to guide the user. All test set ups and calibration files can be protected by a supervisor, or embedded at our factory during installation, making it a 'switch on and go' system.

For users who test corrosive materials such as PVC or abrasive materials such as glass filled materials, we also offer the Davenport MFI-9 with a tungsten carbide corrosive resistant barrel and pistons.

Features

- Simple set up, operation and maintenance
- Manual test method according to BS 2782 Part 7: Method 720A, ISO 1133, ASTM D1238 Method A
- Independent, stand-alone system
- Audible prompts guide user through test
- Multiple test set-ups
- Repeatable and reproducible results
- Heavy-duty, robust construction

Specifications

Temperature Range:	40°C to 400°C
Temperature Controller:	All systems $\pm 0.1^\circ\text{C}$ accuracy
Pre-Heat Timer Set Values:	4, 5, 6, 7 and 8 mins
Cut Off Timer Set Values:	5, 10, 15, 30, 60, 120 and 240 secs
Warm Up Time:	10 mins (23°C to 190°C)
Electrical Supply:	230V $\pm 10\%$ ac 50-60Hz fuses 5A (T) 115V $\pm 10\%$ ac 50-60Hz fuses 10A(T) Max power required: 1 KW
International Standards:	BS 2782 Part 7: Method 720A, ISO 1133, ASTM D1238 Method A
Dies:	Tungsten carbide 2.095 mm (supplied as standard with machine) or 1.181 mm (optional)
Pistons:	Standard 100 g for loads <10 kg (supplied as standard with machine)
Net Weight :	21.8 kg



Specification Sheet

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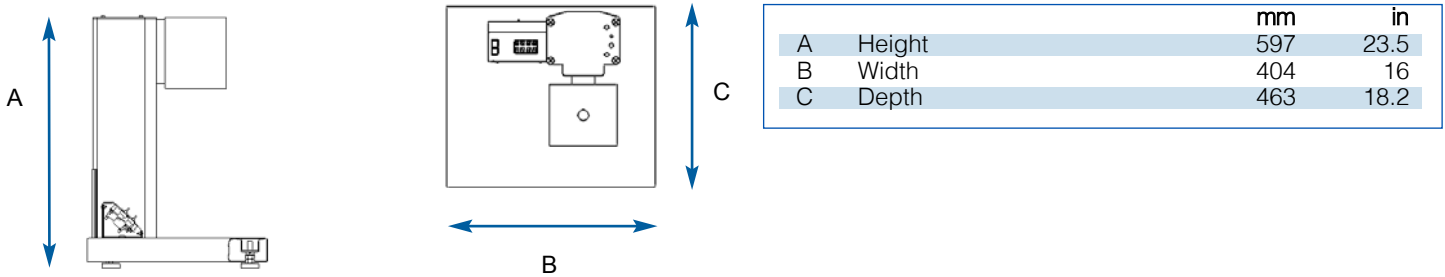
Standard Accessories supplied with the MFI-9

Item	Part No	Item	Part No
2.095 mm Die	338/10	Cut Off Knife	338/33
Die Insert, Ceramic	737/7	Standard Piston	338/45
Die Plate Casting for Die Inserts	737/8	Filling Funnel	730/79

Optional Accessories

Item	Model	Part No	Item	Model	Part No
Tool Kit (Complete)		01/2816	313 - 317°C Thermometer	MFI/THER 315	338/104/17
Items included in Tool Kit:			323 - 327°C Thermometer	MFI/THER 325	338/304/1
2.16 kg Weight		338/14	348 - 352°C Thermometer	MFI/THER 350	338/304/2
Charging Tool		338/52	373 - 377°C Thermometer	MFI/THER 375	338/304/3
Die Ejector Tool		338/54	398 - 402°C Thermometer	MFI/THER 400	338/304/4
Barrel Cleaning Tool		338/55			
Die Broach		338/101	Weights		
10 Boxes of 45 Cleaning Patches		338/132	325 g Test Weight	MFI/WT 325	338/12
71 mm Piston Support Sleeves		338/293	1000 g Test Weight	MFI/WT 1000	338/226
81 mm Piston Support Sleeves		338/294	1050 g Test Weight	MFI/WT 1050	338/259
Thermometer - 190°C		338/104/3	1200 g Test Weight	MFI/WT 1200	338/13
Die Tweezers		92/0404	2160 g Test Weight	MFI/WT 2160	338/14
			3800 g Test Weight	MFI/WT 3800	338/15
Calibration Thermometers - including Calibration Certificate			5000 g Test Weight	MFI/WT 5000	338/16
(90° angle indicating; short range (4° x 0.1°C) mercury in glass)			Top Weight for 10 kg	MFI/WT A	338/17
123 - 127°C Thermometer	MFI/THER 125	338/104/1	Top Weight for 12.5 kg	MFI/WT B	338/18
148 - 152°C Thermometer	MFI/THER 150	338/104/2	Top Weight for 20 kg	MFI/WT C	338/20
188 - 192°C Thermometer	MFI/THER 190	338/104/3	Top Weight for 21.6 kg	MFI/WT D	338/19
198 - 202°C Thermometer	MFI/THER 200	338/104/4			
208 - 212°C Thermometer	MFI/THER 210	338/104/15	Other Accessories		
218 - 222°C Thermometer	MFI/THER 220	338/104/12	Die Plug Gauge Go/No Go		338/103
228 - 232°C Thermometer	MFI/THER 230	338/104/5	(2.0904/2.1006 mm with UKAS Certificate)		
233 - 237°C Thermometer	MFI/THER 235	338/104/6			
248 - 252°C Thermometer	MFI/THER 250	338/104/11	Barrel Plug Gauges		GAU/0040/00
263 - 267°C Thermometer	MFI/THER 265	338/104/7	(Go/No Go Gauge with extended handle		
273 - 277°C Thermometer	MFI/THER 275	338/104/8	9.543/9.558 mm and 225 mm long supplied		
295 - 299°C Thermometer	MFI/THER 297	338/104/14	with UKAS Certificate)		
298 - 302°C Thermometer	MFI/THER 300	338/104/9			
308 - 312°C Thermometer	MFI/THER 310	338/104/13			

Product Dimensions



Ordering Information

Model	Part No	Description
MFI-9/115	01/2787	115V Melt Flow Indexer
MFI-9/115CR	01/2818	115V Corrosion Resistant Melt Flow Indexer
MFI-9/230	01/2778	230V Melt Flow Indexer
MFI-9/230CR	01/2817	230V Corrosion Resistant Melt Flow Indexer

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