

# F-440

## Variable Area Flow Meter

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### Features

- > Polysulfone body resists high temperatures and pressures
- > In-line or panel mount configurations available
- > Indoor use only
- > Full scale accuracy +/- 4%
- > 316SS float & guide-wire

### Highlights

**Flow range**

0.025–10 GPM  
0.1–37.5 LPM

**Pressures**

175 PSI  
(12 bar)

**Max. fluid temp**

212 °F  
100 °C

**Body**

Polysulfone

**Adapters**

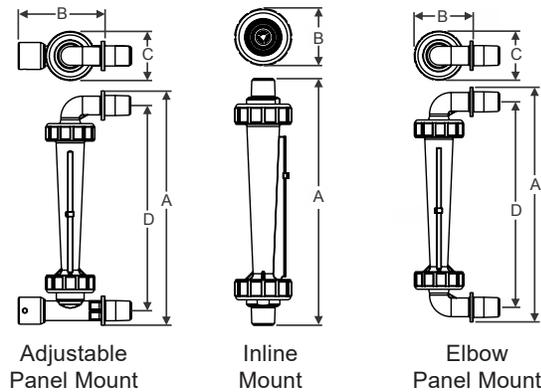
1/4" - 3/4" M/NPT

**Warranty**

1 Year

<b>Maximum Working Pressure</b>	175 PSI (10.3 bar) @ 70 °F (21 °C)
<b>Maximum Fluid Temperature</b>	212 °F (100 °C) @ 0 PSI
<b>Full Scale Accuracy</b>	+/- 4%
<b>Calibration Fluid</b>	water, specific gravity 1.0
<b>Scale Length</b>	2" (50mm) approx.
<b>Environment</b>	Not for direct sunlight exposure
<b>Approximate Shipping Weight</b>	0.5 lb. (0.23 kg)

## Dimensions



	Pipe Size	A	B	C	D
Inline	F-44250	6-3/16" 157mm	1-11/16" (43mm)	N/A	N/A
	F-44375				
	F-44376				
	F-44500				
	F-44750	7-1/2" (191mm)	2" (51mm)	N/A	N/A
Elbow	F-44250E	7" (178mm)	3" (76mm)	1-11/16" (43mm)	5-15/16" (151mm)
	F-44375E				
	F-44376E				
	F-44500E				
	F-44750E	8-1/8" (206mm)	3" (76mm)	2" (51mm)	6-13/16" (173mm)
Adjustable	F-44250A	7" (178mm)	4-1/2" (114mm)	1-11/16" (43mm)	6" (152mm)
	F-44375A				
	F-44376A				
	F-44500A				
	F-44750A	8" (203mm)	4-1/2" (114mm)	2" (51mm)	6-13/16" (173mm)

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## Non-wetted Components:

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<b>Union Nuts</b>	Nylon
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## Wetted Components:

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<b>Meter Body</b>	Polysulfone
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<b>Adapters</b>	Polysulfone M/NPT
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<b>Guide Rod Holder</b>	Polysulfone
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<b>O-ring Seals</b>	Viton® (optional EP)
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<b>Float</b>	316SS, PVDF, or PTFE (per model)
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<b>Guide Rod</b>	316SS
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## Output Specifications

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Model	Dual Scale Range		Float Material
	GPM	LPM	
F-44250L	0.025–0.250	0.1–1.0	PVDF
F-44375L	0.1–1.0	0.4–4.0	316 SS
F-44376L	0.2–2.0	0.75–7.5	316 SS
F-44500L	0.5–5.0	1.8–18.0	316 SS
F-44750L	1.0–10.0	5.0–37.5	316 SS

# Model Number Matrix

## F-440 Model Number

<b>F</b>	Flow Meter									
<b>Series</b>										
<b>44</b>	F-440 Polysulfone Body									
<b>Scale</b>										
<b>250</b>	0.025 - .250 gpm (0.1 - 1.0 lpm) PVDF Float									
<b>375</b>	0.1 - 1.0 gpm (0.4 - 4.0 lpm) 316SS Float									
<b>376</b>	0.2 - 2.0 gpm (0.8 - 8.0 lpm) 316SS Float									
<b>500</b>	0.5 - 5.0 gpm (1.8 - 18.0 lpm) 316SS Float									
<b>750</b>	1.0 - 10 gpm (5.0 - 37.5 lpm) 316SS Float									
<b>Guide-Wire Material</b>										
<b>L</b>	316 Stainless steel rod									
<b>Installation</b>										
<b>(Blank)</b>	In-Line Model									
<b>E</b>	Panel Mount Model									
<b>A</b>	Adjustable Panel									
<b>Adapter</b>		<b>Adapter (For 750)</b>								
<b>6</b>	.375" Male npt Polysulfone Adapter and Union	<b>8</b>	.50" Male npt Polysulfone Adapter and Union							
<b>8</b>	.50" Male npt Polysulfone Adapter and Union	<b>12</b>	.75" Male npt Polysulfone Adapter and Union							
<b>O-Rings</b>										
<b>(Blank)</b>	Viton									
<b>-22Q</b>	EP									
<b>F</b>	<b>-</b>	<b>44</b>	<b>250</b>	<b>L</b>	<b>-</b>	<b>6</b>	<b>(Blank)</b>	<b>-22Q</b>	<b>(Blank)</b>	Sample Model Number

\*In-house NIST Calibration, OEM packaging and silicone oil free options are also available.

# F-450

## Variable Area Flow Meter

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### Features

- > Polysulfone body resists high temperatures and pressures
- > In-line or panel mount configurations available
- > Indoor use only
- > Full scale accuracy +/- 4%
- > 316SS float & guide-wire

### Highlights

**Flow range**

0.1 - 10 GPM  
0.4 - 40 LPM

**Pressures up to**

175 PSI  
(12 bar)

**Max. fluid temp.**

212 °F  
100 °C

**Body**

Polysulfone

**Adapters**

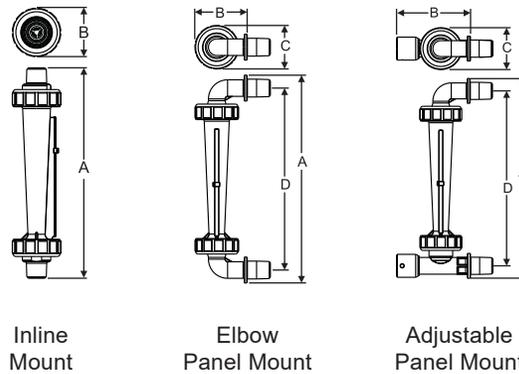
3/8" - 3/4" M/NPT  
(Inline & panel mount)

**Warranty**

1 Year

<b>Maximum Working Pressure</b>	175 PSI (12 bar) @ 70 °F (21°C)
<b>Maximum Fluid Temperature</b>	212 °F (100 °C) @ 0 PSI
<b>Full Scale Accuracy</b>	+/- 4%
<b>Calibration Fluid</b>	Water, specific gravity 1.0
<b>Scale Length</b>	4" (100mm) approx.
<b>Environment</b>	Not for direct sunlight exposure
<b>Maximum Pressure Drop</b>	2 PSI
<b>Approximate Shipping Weight</b>	0.5 lb. (.23 kg)

## Dimensions



	<b>Model No.</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Inline	F-45375L	8-7/8" (225.5mm)	1-3/4" (44.4mm)	N/A	N/A
	F-45376L				
	F-45500L				
	F-45750L	10" (254mm)	2" (51mm)	N/A	N/A
Elbow	F-45375E	9-7/8" (250.8mm)	3-1/2" (88mm)	2" (51mm)	9-1/8" (233mm)
	F-45376E				
	F-45500E				
	F-45750E	10" (254mm)	3-1/2" (88mm)	2" (51mm)	9-1/8" (233mm)
Adjustable	F-45375A	9-7/8" (250.8mm)	5" (127mm)	2" (51mm)	8-9/16" (217.5mm)
	F-45376A				
	F-45500A				
	F-45750A	10" (254mm)	5" (127mm)	2" (51mm)	9-1/8" (231.8mm)

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## Non-wetted Components:

<b>Union Nuts</b>	Nylon
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## Wetted Components:

<b>Meter Body</b>	Polysulfone
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<b>Adapters</b>	Polysulfone M/NPT, Polypro F/NPT
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<b>Guide Rod Holder</b>	Polysulfone
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<b>O-ring Seals</b>	Viton
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<b>Float</b>	316SS or PTFE (varies per model)
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<b>Guide Rod</b>	316SS
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## Output Specifications

Model	Feed Rate		Max Pressure	Max Temp.	Float Material
	GPM	LPM	PSI (bar)	°F (°C)	
F-45375L	0.1–1.0	0.4–4.0	175 (12)	212 (100)	PTFE
F-45376L	0.2–2.0	1.0–7.5	175 (12)	212 (100)	316ss
F-45500L	0.5–5.0	2.0–20.0	175 (12)	212 (100)	316ss
F-45750L	1.0–10.0	4.0–40.0	175 (12)	212 (100)	316ss

# Model Number Matrix

## F-450 Model Number

<b>F</b>	Flow Meter						
<b>Series</b>							
<b>45</b>	F-450 Polysulfone body						
<b>Scale</b>							
<b>375</b>	0.1 - 1.0 gpm (0.4 - 4.0 lpm) Teflon float						
<b>376</b>	0.2 - 2.0 gpm (1.0 - 7.5 lpm) 316ss Float						
<b>500</b>	0.5 - 5.0 gpm (2.0 - 20 lpm) 316ss Float						
<b>750</b>	1.0 - 10 gpm (4.0 - 40 lpm) 316ss Float						
<b>Guide-wire material</b>							
<b>L</b>	3/16" Stainless steel rod						
<b>Installation</b>							
<b>(Blank)</b>	In-Line model						
<b>E</b>	Panel mount model (6, 8 and 12 adapter options only)						
<b>A</b>	Adjustable panel mount model (6, 8 and 12 adapter options only)						
<b>Adapter</b>							
<b>6</b>	0.375" Female NPT polypropylene adapter & polysulfone union (0.375" Male NPT adapters for panel mount models)						
<b>8</b>	0.50" Male NPT polysulfone adapter & union (in-line & panel mount models)						
<b>12</b>	0.75" Male NPT polysulfone adapter & union (in-line & panel mount models)						
<b>F</b>	<b>-</b>	<b>45</b>	<b>375</b>	<b>L</b>	<b>-</b>	<b>6</b>	<b>Sample Model Number</b>

\*In-house NIST Calibration, OEM packaging and silicone oil free options are also available.