

# variable area flowmeters



The Blue-White variable area flowmeter uses a precision manufactured transparent tube with a tapered bore, into which is fitted a conical weighted float.

The media (water, liquid or gaseous chemicals) flows vertically from the bottom to the top. As it passes through the tube, it displaces the float and raises it to a point where equilibrium is established between the lifting force of the media and the weight of the float. The top edge of the float directly indicates the flow volume on the graduated tube scale.

Blue-White manufacture a wide range of variable area flowmeters from corrosion resistant materials, including Acrylic, Polysulfone, PVC-U and Glass. The range includes both in-line flowmeters and panel mount flowmeters.



- ✓ **Materials for most media: PVC-U, Acrylic, Polysulfone and glass**
- ✓ **Float manufactured from PVC-U, Stainless Steel Hastelloy C, PTFE, Sapphire, Carboloy or K Monel**
- ✓ **Piping connections to Plastic and Metal Pipe Systems**
- ✓ **High Level of Clarity with glass-like finish**
- ✓ **Wide Choice of optional scales**

## Blue-White Flowmeter Programme Overview

Model	Material	Flow Range Liquid	In-Line Mount	Panel Mount	Connection Size							
					1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/2"	2"
F-400N	Acrylic	0.025 to 20 GPM	•				•	•	•	•		
F-420N	Acrylic	5 to 50 GPM	•								•	
F-430N	Acrylic	4 to 100 GPM	•								•	•
F-460	Polysulfone	0.1 to 5 GPM	•					•	•			
F-461	Polysulfone	1 to 20 GPM	•							•		
F-462	Polysulfone	2 to 80 GPM	•									•
F-440	Polysulfone	0.025 to 10 GPM	•	•			•	•				
F-450N	Polysulfone	0.1 to 10 GPM	•	•			•	•	•			
F-451N	Polysulfone	0.5 to 40 GPM	•							•	•	
F-452	Polysulfone	2.0 to 175 GPM	•									•
F-550	Acrylic	0.025 to 20 GPM		•			•	•	•	•		
F-500E	Acrylic	0.2 to 72 GPM		•	•	•						
F-650	Glass	0.0001 to 29.72 GPM		•		•						
F-670	Glass	0.5 to 5 GPM	•			•	•					
F-750	PVC-U	0.2 to 32 GPM		•		•						

### Need advice?

Our expert team are here to help.  
Call our freephone:

**0800 975 79 71**

Or from outside of the UK:  
+44 191 521 3111





## Blue-White F-400N Series Flowmeter

**Description:** In-line variable area flowmeter  
**Mounting:** Vertical - flow upwards  
**Maximum Fluid Pressure at 20°C:** 10 bar  
**Maximum Fluid Temperature:** 65°C  
**Accuracy:** ±5% full scale  
**Scaling:** US GPM plus L/min  
**Body Material:** Machined Acrylic  
**End Connections:** Polypropylene reinforced with aluminium stress rings  
 Female NPT Threaded  
**Float:** PVC-U, 316 St/St or Hastelloy C  
**O-Rings:** FPM  
**Max Pressure Drop:** 2 psi  
**Options:** High/Low level alarm  
**Features:** Back reflector for easy meter reading

### Standard Flowmeter

FlowRange l/min	Flow Range US GPM	Connection FPT	PVC-U Float		Stainless Steel Float		Hastelloy C Float	
			Code	Price	Code	Price	Code	Price
0.1-1	0.025-0.250	1/4"	F-40 250 LN-4	177.15	-	-	F-40 250 LK-4	382.86
0.1-1	0.025-0.250	3/8"	F-40 250 LN-6	177.15	-	-	F-40 250 LK-6	382.86
0.4-4	0.1-1.0	3/8"	F-40 375 LN-6	151.49	-	-	F-40 375 LK-6	210.04
0.4-4	0.1-1.0	1/2"	F-40 375 LN-8	151.49	-	-	F-40 375 LK-8	210.04
1.0-7.5	0.2-2.0	3/8"	-	-	F-40 376 LN-6	151.49	F-40 376 LK-6	210.04
1.0-7.5	0.2-2.0	1/2"	-	-	F-40 376 LN-8	151.49	F-40 376 LK-8	210.04
1.5-11	0.3-3.0	3/8"	-	-	F-40 377 LN-6	163.32	F-40 377 LK-6	382.86
1.5-11	0.3-3.0	1/2"	-	-	F-40 377 LN-8	163.32	F-40 377 LK-8	382.86
2.0-20	0.5-5.0	3/8"	-	-	F-40 500 LN-6	151.49	F-40 500 LK-6	382.86
2.0-20	0.5-5.0	1/2"	-	-	F-40 500 LN-8	151.49	F-40 500 LK-8	382.86
4.0-38	1.0-10	3/4"	-	-	F-40 750 LN-12	291.83	F-40 750 LK-12	418.43
4.0-38	1.0-10	1"	-	-	F-40 750 LN-16	291.83	F-40 750 LK-16	418.43
4.0-64	1.0-17	3/4"	-	-	F-41 017 LN-12	291.83	F-41 017 LK-12	418.43
4.0-64	1.0-17	1"	-	-	F-41 017 LN-16	291.83	F-41 017 LK-16	418.43
8.0-80	2.0-20	3/4"	-	-	F-41 000 LN-12	291.83	F-41 000 LK-12	418.43
8.0-80	2.0-20	1"	-	-	F-41 000 LN-16	291.83	F-41 000 LK-16	418.43

### Flowmeter with High/Low Level Alarm

Flow Range l/min	Flow Range US GPM	Connection FPT	PVC-U Float		Stainless Steel Float		Hastelloy C Float	
			Code	Price	Code	Price	Code	Price
1.0-8	0.2-2.0	3/4"	FA-41 376 LN-12	623.21	-	-	-	-
2.0-20	0.5-5.0	3/4"	FA-41 500 LN-12	623.21	-	-	-	-
2.0-20	0.5-5.0	1"	FA-41 500 LN-16	623.21	-	-	-	-
8.0-80	2.0-20	3/4"	-	-	FA-41 000 LN-12	640.60	-	-
8.0-80	2.0-20	1"	-	-	FA-41 000 LN-16	640.60	-	-

### Options and Spares:

	Code	Price
1/4" Female NPT Adaptor	F-4019	42.21
3/8" Female NPT Adaptor	F-4001NS	42.21
1/2" Female NPT Adaptor	F-4003NS	42.21
3/4" Female NPT Adaptor	F-4009	76.47
1" Female NPT Adaptor	F-4011	76.47
316 St/St Guidewire for F-40250LN and F-40500LN	F-4004	32.61
316 St/St Guidewire for F-40750LN and F-41017LN	F-4012	24.33
FPM O-Ring for 1/4", 3/8" and 1/2" connectors	90003-119	10.02
FPM O-Ring for 3/4", 1" connectors	F-4010K	12.50

# variable area flowmeters

## Blue-White F-462 Series Flowmeter

**Description:** In-line variable area flowmeter  
**Mounting:** Vertical - flow upwards  
**Maximum Fluid Pressure at 20°C:** 10 bar  
**Maximum Fluid Temperature:** 93°C  
**Accuracy:** ±2.5% full scale  
**Scaling:** US GPM plus L/min  
**Body Material:** Natural Polysulfone  
**End Connections:** Polysulfone NPT Female Threaded. PVDF or Polypropylene Inch Fusion Socket. PVDF or Polypropylene MM Fusion Socket.  
**Float:** PTFE  
**O-Rings:** FPM  
**Max Pressure Drop:** 2 psi  
**Options:** Can be ordered with Polycarbonate safety shield



### Standard Flowmeter - Polysulfone Connections

Flow Range l/min	Flow Range US GPM	Connection FPT	Polysulfone Connections	
			Code	Price
8-80	2-20	2"	F-46 2200 LX-32H	1089.18
20-200	5-50	2"	F-46 2500 LX-32H	1089.18
30-300	8-80	2"	F-46 2800 LX-32H	1089.18

### Standard Flowmeter - Inch Fusion Socket Connections

Flow Range l/min	Flow Range US GPM	Connection Fusion Sock	Polypropylene Connections		PVDF Connections	
			Code	Price	Code	Price
8-80	2-20	2"	F-46 2200 LX-33G	1244.79	F-46 2200 LX-33K	2022.75
20-200	5-50	2"	F-46 2500 LX-33G	1244.79	F-46 2500 LX-33K	2022.75
30-300	8-80	2"	F-46 2800 LX-33G	1244.79	F-46 2800 LX-33K	2022.75

### Standard Flowmeter - MM Fusion Socket Connections

Flow Range l/min	Flow Range US GPM	Connection Fusion Sock	Polypropylene Connections		PVDF Connections	
			Code	Price	Code	Price
8-80	2-20	63mm	F-46 2200 LX-34G	1244.80	F-46 2200 LX-34K	2022.75
20-200	5-50	63mm	F-46 2500 LX-34G	1244.80	F-46 2500 LX-34K	2022.75
30-300	8-80	63mm	F-46 2800 LX-34G	1244.80	F-46 2800 LX-34K	2022.75



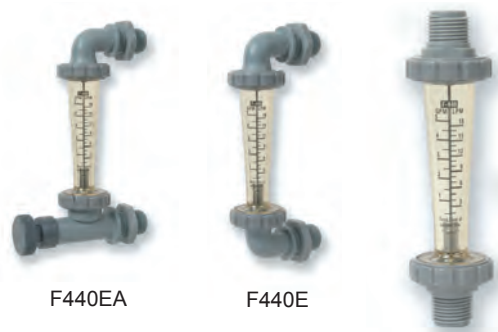
Flowmeter with polycarbonate shield

### Options and Spares:

	Code	Price
2" Polysulfone Female NPT Adaptor	F-452330N	165.62
2" Polypropylene Socket Fusion Adaptor	76001-294	287.06
2" PVDF Socket Fusion Adaptor	76001-295	648.87
63mm Polypropylene Socket Fusion Adaptor	76001-309	287.06
63mm PVDF Socket Fusion Adaptor	76001-310	683.34
FPM O-Ring	F-452043N	50.36
Union Nut	F-452004N	86.13
Float Stop	F-452002	21.70

## Blue-White F-440N Series Flowmeter

**Description:** In-line variable area flowmeter  
**Mounting:** Vertical - flow upwards  
**Maximum Fluid Pressure at 20°C:** 10 bar  
**Maximum Fluid Temperature:** 100°C  
**Accuracy:** ±5% full scale **Scaling:** US GPM plus L/min or US GPH  
**Body Material:** Natural Polysulfone  
**End Connections:** Grey Polysulfone Male NPT Threaded  
**Float:** 316 St/St, Hastelloy C, PTFE or PVC-U **O-Rings:** FPM  
**Max Pressure Drop:** 2 psi  
**Options:** Configurations for both In-Line or Panel Mount.  
 Optional Integral Flow Adjustment Valve



### Standard Flowmeter - GPM and L/min Scales

Flow Range l/min	Flow Range US GPM	Connection MPT	LH Model		LHE Model		LEA Model	
			Code	Price	Code	Price	Code	Price
0.1-1	0.025-0.250	3/8"	F-44 250 LH-6	142.69	F-44 250 LHE-6	171.59	F-44 250 LEA-6	254.70
0.1-1	0.025-0.250	1/2"	F-44 250 LH-8	142.69	F-44 250 LHE-8	171.59	F-44 250 LEA-8	254.70
0.4-4	0.1-1.0	3/8"	F-44 375 LH-6	142.69	F-44 375 LHE-6	171.59	F-44 375 LEA-6	254.70
0.4-4	0.1-1.0	1/2"	F-44 375 LH-8	142.69	F-44 375 LHE-8	171.59	F-44 375 LEA-8	254.70
0.75-7.5	0.2-2.0	3/8"	F-44 376 LH-6	142.69	F-44 376 LHE-6	171.59	F-44 376 LEA-6	254.70
0.75-7.5	0.2-2.0	1/2"	F-44 376 LH-8	142.69	F-44 376 LHE-8	171.59	F-44 376 LEA-8	254.70
1.8-18	0.5-5.0	3/8"	F-44 500 LH-6	142.69	F-44 500 LHE-6	171.59	F-44 500 LEA-6	254.70
1.8-18	0.5-5.0	1/2"	F-44 500 LH-8	142.69	F-44 500 LHE-8	171.59	F-44 500 LEA-8	254.70
5.0-37.5	1.0-10.0	3/4"	F-44 750 LH-12	164.40	F-44 750 LHE-12	200.52	F-44 750 LEA-12	308.90

Flow Range l/min	Flow Range US GPM	Connection MPT	LHK Model		LKEA Model		LHB Model	
			Code	Price	Code	Price	Code	Price
0.1-1	0.025-0.250	3/8"	F-44 250 LHK-6	180.14	F-44 250 LKEA-6	331.00	-	-
0.1-1	0.025-0.250	1/2"	F-44 250 LHK-8	180.14	F-44 250 LKEA-8	331.00	F-44 250 LHB-8	173.78
0.4-4	0.1-1.0	3/8"	F-44 375 LHK-6	180.14	F-44 375 LKEA-6	331.00	-	-
0.4-4	0.1-1.0	1/2"	F-44 375 LHK-8	180.14	F-44 375 LKEA-8	331.00	F-44 375 LHB-8	173.78
0.75-7.5	0.2-2.0	3/8"	F-44 376 LHK-6	254.02	F-44 376 LKEA-6	360.57	-	-
0.75-7.5	0.2-2.0	1/2"	F-44 376 LHK-8	254.02	F-44 376 LKEA-8	360.57	F-44 376 LHB-8	173.78
1.8-18	0.5-5.0	3/8"	F-44 500 LHK-6	254.02	F-44 500 LKEA-6	360.57	-	-
1.8-18	0.5-5.0	1/2"	F-44 500 LHK-8	254.02	F-44 500 LKEA-8	360.57	F-44 500 LHB-8	173.78
5.0-37.5	1.0-10.0	3/4"	F-44 750 LHK-12	368.86	F-44 750 LKEA-12	559.68	F-44 750 LHB-12	200.93

### Standard Flowmeter - GPH Scale

Flow Range US GPH	Connection MPT	LH Model		LHE Model		LEA Model	
		Code	Price	Code	Price	Code	Price
3.0-30	3/8"	F-44 330 LH-6	142.69	F-44 330 LHE-6	170.45	F-44 330 LEA-6	254.71
3.0-30	1/2"	F-44 330 LH-8	142.69	F-44 330 LHE-8	170.45	F-44 330 LEA-8	254.71
5.0-60	3/8"	F-44 560 LH-6	142.69	F-44 560 LHE-6	170.45	F-44 560 LEA-6	254.71
5.0-60	1/2"	F-44 560 LH-8	142.69	F-44 560 LHE-8	170.45	F-44 560 LEA-8	254.71

Flow Range US GPH	Connection MPT	LHK Model		LHE Model		LHB Model	
		Code	Price	Code	Price	Code	Price
3.0-30	3/8"	F-44 330 LHK-6	254.71	F-44 330 LKEA-6	396.63	-	-
3.0-30	1/2"	F-44 330 LHK-8	254.71	F-44 330 LKEA-8	396.63	F-44 330 LHB-8	173.78
5.0-60	3/8"	F-44 560 LHK-6	254.71	F-44 560 LKEA-6	396.63	-	-
5.0-60	1/2"	F-44 560 LHK-8	254.71	F-44 560 LKEA-8	396.63	F-44 560 LHB-8	173.78

### Model Variations:

**LH** Straight In-Line Flowmeter  
**LHE** 90° Elbows Flowmeter for Panel Mount Installation  
**LEA** 90° Elbows Flowmeter with Adjustable Valve for Panel Mount Installation  
**LHK** Straight In-Line Flowmeter with Hastelloy C, PVC-U or PTFE Float and Guide Rod  
**LKEA** 90° Elbows Flowmeter for Panel Mount Installation with Hastelloy C, PVC-U or PTFE Float and Guide Rod  
**LHB** Straight In-Line Flowmeter with Brass Adaptors

### Options and Spares:

	Code	Price
3/8" Male NPT Adaptor	F-4407*	23.22
3/8" Male NPT 90° Elbow for Panel Mount	F4440K*	30.11
1/2" Male NPT Adaptor	F-4408*	23.22
1/2" Male NPT 90° Elbow for Panel Mount	F-4420P*	30.11
3/4" Male NPT Adaptor	F4409*	28.91
3/4" Male NPT 90° Elbow for Panel Mount	F-4421K*	34.77
Half Union Connector for all F-440 (except F-44750)	F-4405P	27.58
Half Union Connector for all F-44750	F-4406P	31.58
Panel Mount Lock Nut for 3/8" and 1/2" Adaptors	F-4427A	4.40
Panel Mount Lock Nut for 3/4" Adaptors	F-4428A	5.90
FPM O-Ring for 3/8" and 1/2" Adaptors	F-4410V	6.45
FPM O-Ring for 3/4" Adaptors	F-4411V	8.03

\*Note: This part requires an O-Ring

# variable area flowmeters

## Blue-White F-450N Series Flowmeter

**Description:** In-line variable area flowmeter  
**Mounting:** Vertical - flow upwards  
**Maximum Fluid Pressure at 20°C:** 10 bar  
**Maximum Fluid Temperature:** 100°C  
**Accuracy:** ±5% full scale **Scaling:** US GPM plus L/min  
**Body Material:** Natural Polysulfone  
**End Connections:** Grey Polysulfone Male NPT Threaded  
**Float:** 316 St/St, Hastelloy C or PTFE **O-Rings:** FPM  
**Max Pressure Drop:** 2 psi  
**Options:** Configurations for both In-Line or Panel Mount.  
 Optional Integral Flow Adjustment Valve



## Standard Flowmeter - GPM and L/min Scales

Flow Range l/min	Flow Range US GPM	Connection Threaded	LHN Model		LHNE Model		LEA Model	
			Code	Price	Code	Price	Code	Price
0.4-4.0	0.1-1.0	3/8" FPT	F-45 375 LHN-6	150.19	F-45 375 LHNE-6	178.88	F-45 375 LEA-6	261.10
0.4-4.0	0.1-1.0	1/2" MPT	F-45 375 LHN-8	150.19	F-45 375 LHNE-8	178.88	F-45 375 LEA-8	261.10
1.0-7.5	0.2-2.0	3/8" FPT	F-45 376 LHN-6	150.19	F-45 376 LHNE-6	178.88	F-45 376 LEA-6	261.10
1.0-7.5	0.2-2.0	1/2" MPT	F-45 376 LHN-8	150.19	F-45 376 LHNE-8	178.88	F-45 376 LEA-8	261.10
2.0-20.0	0.5-5.0	3/8" FPT	F-45 500 LHN-6	150.19	F-45 500 LHNE-6	178.88	F-45 500 LEA-6	261.10
2.0-20.0	0.5-5.0	1/2" MPT	F-45 500 LHN-8	150.19	F-45 500 LHNE-8	178.88	F-45 500 LEA-8	261.10
2.0-20.0	0.5-5.0	3/4" MPT	F-45 500 LHN-12	150.19	F-45 500 LHNE-12	178.88	F-45 500 LEA-12	261.10
4.0-40.0	1.0-10.0	3/4" MPT	F-45 750 LHN-12	173.44	F-45 750 LHNE-12	200.64	F-45 750 LEA-12	283.49

Flow Range l/min	Flow Range US GPM	Connection Threaded	LHKN Model		LKEA Model		LHBN Model	
			Code	Price	Code	Price	Code	Price
0.4-4.0	0.1-1.0	3/8" FPT	F-45 375 LHKN-6	254.02	F-45 375 LKEA-6	409.80	-	-
0.4-4.0	0.1-1.0	1/2" MPT	F-45 375 LHKN-8	254.02	F-45 375 LKEA-8	409.80	F-45 375 LHBN-8	202.86
1.0-7.5	0.2-2.0	3/8" FPT	F-45 376 LHKN-6	254.02	F-45 376 LKEA-6	409.80	-	-
1.0-7.5	0.2-2.0	1/2" MPT	F-45 376 LHKN-8	254.02	F-45 376 LKEA-8	409.80	F-45 376 LHBN-8	202.86
2.0-20.0	0.5-5.0	3/8" FPT	F-45 500 LHKN-6	254.02	F-45 500 LKEA-6	409.80	-	-
2.0-20.0	0.5-5.0	1/2" MPT	F-45 500 LHKN-8	254.02	F-45 500 LKEA-8	409.80	F-45 500 LHBN-8	202.86
2.0-20.0	0.5-5.0	3/4" MPT	F-45 500 LHKN-12	254.02	F-45 500 LKEA-12	409.80	-	-
4.0-40.0	1.0-10.0	3/4" MPT	F-45 750 LHKN-12	380.99	F-45 750 LKEA-12	571.10	F-45 750 LHBN-12	237.66

### Model Variations:

**LH** Straight In-Line Flowmeter  
**LHE** 90° Elbows Flowmeter for Panel Mount Installation  
**LEA** 90° Elbows Flowmeter with Adjustable Valve for Panel Mount Installation  
**LHKN** Straight In-Line Flowmeter with Hastelloy C, PVC-U or PTFE Float and Guide Rod  
**LKEA** 90° Elbows Flowmeter for Panel Mount Installation with Hastelloy C, PVC-U or PTFE Float and Guide Rod  
**LHBN** Straight In-Line Flowmeter with Brass Adaptors

### Options and Spares:

	Code	Price
3/8" Male NPT Adaptor	F-45011N*	23.22
3/8" Male NPT 90° Elbow for Panel Mount	F-4441K*	34.77
1/2" Male NPT Adaptor	F-45013N*	23.22
1/2" Male NPT 90° Elbow for Panel Mount	F-4442K*	34.77
3/4" Male NPT Adaptor	F-4409*	28.91
3/4" Male NPT 90° Elbow for Panel Mount	F-4421K*	34.77
Half Union Connector for all F-450	F-4406P	31.69
Lock Nut for 1/2" and 3/8" adaptors	F-4427A	4.61
Lock Nut for 3/4" adaptors	F-4428A	6.20
FPM O-Ring for all F-450	F-4411V	8.03
Wireholder for F-450N except F-45750N	F-45007	9.34
Wireholder for F-45750N	F-45019	11.60

\*Note: This part requires an O-Ring

## Blue-White F-451N Series High Volume Flowmeter

**Description:** In-line variable area flowmeter  
**Mounting:** Vertical - flow upwards  
**Maximum Fluid Pressure at 20°C:** 10 bar  
**Maximum Fluid Temperature:** 100°C  
**Accuracy:** ±3% full scale **Scaling:** US GPM plus L/min  
**Body Material:** Natural Polysulfone  
**End Connections:** Grey Polysulfone Female NPT Threaded  
**Float:** 316 St/St, Hastelloy C or PTFE **O-Rings:** FPM  
**Max Pressure Drop:** 1 psi  
**Options:** Configurations for both In-Line or Panel Mount.  
 Can be ordered with Polycarbonate safety shield.



Elbow version with polycarbonate shield

### Standard Flowmeter - GPM and L/min Scales

Flow Range l/min	Flow Range US GPM	Connection FPT	LHN Model		LHNE Model	
			Code	Price	Code	Price
2-20	0.5-6.0	1"	F-45 1006 LHN	462.39	F-45 1006 LHNE	569.78
2-20	0.5-6.0	1 1/2"	F-45 1006 LHN-24	517.67	-	-
4-40	1.0-10.0	1"	F-45 1001 LHN	492.16	F-45 1001 LHNE	569.78
4-40	1.0-10.0	1 1/2"	F-45 1001 LHN-24	517.67	-	-
7.5-75	2.0-20.0	1"	F-45 1002 LHN	516.55	F-45 1002 LHNE	591.55
7.5-75	2.0-20.0	1 1/2"	F-45 1002 LHN-24	542.02	-	-
12-115	3.0-30.0	1"	F-45 1003 LHN	565.99	F-45 1003 LHNE	636.86
12-115	3.0-30.0	1 1/2"	F-45 1003 LHN-24	591.45	-	-
15-155	4.0-40.0	1"	F-45 1004 LHN	594.12	F-45 1004 LHNE	662.33
15-155	4.0-40.0	1 1/2"	F-45 1004 LHN-24	619.60	-	-

Flow Range l/min	Flow Range US GPM	Connection FPT	LHNC Model		LHKN Model		LHBPN Model	
			Code	Price	Code	Price	Code	Price
2-20	0.5-6.0	1"	F-45 1006 LHNC	650.64	F-45 1006 LHKN	843.13	F-45 1006 LHBPN	667.96
2-20	0.5-6.0	1 1/2"	F-45 1006 LHNC-24	702.35	F-45 1006 LHKN-24	868.60	-	-
4-40	1.0-10.0	1"	F-45 1001 LHNC	675.61	F-45 1001 LHKN	843.13	F-45 1001 LHBPN	692.66
4-40	1.0-10.0	1 1/2"	F-45 1001 LHNC-24	675.61	F-45 1001 LHKN-24	868.61	-	-
7.5-75	2.0-20.0	1"	F-45 1002 LHNC	699.99	F-45 1002 LHKN	906.72	F-45 1002 LHBPN	748.99
7.5-75	2.0-20.0	1 1/2"	F-45 1002 LHNC-24	725.50	F-45 1002 LHKN-24	932.23	-	-
12-115	3.0-30.0	1"	F-45 1003 LHNC	749.45	F-45 1003 LHKN	971.78	F-45 1003 LHBPN	745.24
12-115	3.0-30.0	1 1/2"	F-45 1003 LHNC-24	774.94	F-45 1003 LHKN-24	997.32	-	-
15-155	4.0-40.0	1"	F-45 1004 LHNC	777.55	F-45 1004 LHKN	1068.53	F-45 1004 LHBPN	782.26
15-155	4.0-40.0	1 1/2"	F-45 1004 LHNC-24	827.08	F-45 1004 LHKN-24	1094.15	-	-

### Model Variations:

**LHN** Straight In-Line Flowmeter  
**LHNE** 90° Elbows Flowmeter for Panel Mount Installation (MPT except for F-451006 which is FPT)  
**LHNC** Straight In-Line Flowmeter with Polycarbonate Shield  
**LHKN** Straight In-Line Flowmeter with Hastelloy C or PTFE Float and Guide Rod  
**LHBPN** Straight In-Line Flowmeter with Brass Adaptors

### Options and Spares:

	Code	Price
Union Nut	F-45038N	54.66
1" Polysulfone Female NPT Adaptor	F-45030N	76.91
1" Brass Female NPT Adaptor	F-45047N	170.38
1 1/2" Polysulfone Female NPT Adaptor	76000-967	76.91
1" Male NPT 90° Elbow for Panel Mount	F-45031	55.32
FPM O-Ring	2-136V	17.81
Wireholder for 0.5-6, 1-10, 2-20 GPM;		
8-80 SCFM	F-45025	11.49
Wireholder for 3-30, 4-40 GPM	F-45025-2	11.49

# variable area flowmeters

## Blue-White F-452 Series Flowmeter

**Description:** In-line variable area flowmeter

**Mounting:** Vertical - flow upwards

**Maximum Fluid Pressure at 20°C:** 9 bar

**Maximum Fluid Temperature:** 65°C

**Accuracy:** ±2% full scale    **Scaling:** US GPM plus L/min

**Body Material:** Natural Polysulfone

**End Connections:** Grey Polysulfone Female NPT Threaded reinforced with aluminium stress rings

**Float:** 316 St/St, Hastelloy C or PTFE

**O-Rings:** FPM

**Max Pressure Drop:** 2 psi



### Standard Flowmeter - GPM and L/min Scales

Flow Range l/min	Flow Range US GPM	Connection FPT	Stainless Steel Float		Hastelloy C or PTFE Float	
			Code	Price	Code	Price
8-78	2-20	2"	F-45 2020 LH	1000.13	F-45 2020 LHK	1487.58
30-230	6-60	2"	F-45 2060 LH	1000.13	F-45 2060 LHK	1487.58
40-300	10-80	2"	F-45 2080 LH	1000.13	F-45 2080 LHK	1515.60
20-380	5-100	2"	F-45 2100 LH	1000.13	F-45 2100 LHK	1515.60
60-500	15-130	2"	F-45 2130 LH	1061.03	F-45 2130 LHK	1562.69
75-675	20-175	2"	F-45 2175 LH	1061.03	F-45 2175 LHK	1562.69

Flow Range l/min	Flow Range US GPM	Connection FPT	Stainless Steel Float		Hastelloy C or PTFE Float	
			Code	Price	Code	Price
8-78	2-20	2"	F-45 2020 LHC	1251.21	F-45 2020 LHKC	1711.55
30-230	6-60	2"	F-45 2060 LHC	1251.21	F-45 2060 LHKC	1769.59
40-300	10-80	2"	F-45 2080 LHC	1251.21	F-45 2080 LHKC	1769.59
20-380	5-100	2"	F-45 2100 LHC	1251.21	F-45 2100 LHKC	1769.59
60-500	15-130	2"	F-45 2130 LHC	1315.02	F-45 2130 LHKC	1816.74
75-675	20-175	2"	F-45 2175 LHC	1315.02	F-45 2175 LHKC	1816.74

### Model Variations:

**LH** Straight In-Line Flowmeter with 316 St/St Float

**LHK** 90° Elbows Flowmeter for Panel Mount Installation (MPT except for F-451006 which is FPT)

**LHC** Straight In-Line Flowmeter with Polycarbonate Shield

**LHKC** Straight In-Line Flowmeter with Hastelloy C or PTFE Float and Guide Rod

### Options and Spares:

	Code	Price
Union Nut	F-452004	86.97
2" Polysulfone Female NPT Adaptor	F-452330	167.21
FPM O-Ring	F-452043	36.98
Wireholder	F-452002	21.70
St/St Guide Wire	F-452287	150.26
Float Stop	F-452332	1.49

## Blue-White F-550 Panel Mount Flowmeter

**Description:** In-line variable area flowmeter for panel mounting  
**Mounting:** Vertical - flow upwards  
**Maximum Fluid Pressure at 20°C:** 17 bar  
**Maximum Fluid Temperature:** 93°C  
**Accuracy:** ±5% full scale **Scaling:** US GPM plus L/min  
**Body Material:** Machined Acrylic  
**End Connections:** Male NPT Threaded  
**Float:** 316 Stainless Steel (PTFE on F-55005L)  
**O-Rings:** FPM  
**Max Pressure Drop:** 2 psi  
**Features:** Bulkhead nuts attach directly to inside panel - mounting screws not required  
**Options:** Optional Flow Adjustment Valve



## Standard Flowmeter - GPM and L/min Scales

Flow Range l/min	Flow Range US GPM	Connection MPT	Standard Model		Model with Flow Valve	
			Code	Price	Code	Price
0.1-1	0.025-0.250	1/4"	F-55 250 L	203.18	F-55 250 LA	300.42
0.4-4	0.1-1.0	3/8"	F-55 375 L	197.24	F-55 375 LA	276.21
0.75-7.5	0.2-2.0	3/8"	F-55 376 L	197.24	F-55 376 LA	276.21
2-20	0.5-5.0	1/2"	F-55 500 L	197.24	F-55 500 LA	276.21
4-40	1-10	3/4"	F-55 750 L	233.91	F-55 750 LA	385.01
3-18	1-5	1"	F-55 005 L	278.57	-	-
4-40	1-10	1"	F-55 010 L	278.57	F-55 010 LA	407.58
5-60	1-15	1"	F-55 015 L	278.57	F-55 015 LA	407.58
7.5-75	2-20	1"	F-55 200 L	278.57	F-55 200 LA	407.58

## Options and Spares:

	Code	Price
Adaptor for F-55250	76001-079*	36.92
Adaptor for F-55375, F-55376	91001-141*	21.88
Adaptor for F-55500	91001-142*	21.88
Adaptor for F-55750	91001-143*	30.03
Adaptor for F-55200, F-55005, F55010, F-55015	91001-144*	42.43
Adaptor Adjustable Valve 1/4" MPT	76001-153*	4.12
Adaptor Adjustable Valve 3/8" MPT	91001-173*	23.72
Adaptor Adjustable Valve 1/2" MPT	91001-174*	23.72
Adaptor Adjustable Valve 3/4" MPT	91001-175*	32.14
Adaptor Adjustable Valve 1" MPT	91001-176*	46.00
O-Ring for Adaptor 1/4" (Adj. Model)	90003-034	4.53
O-Ring for Adaptor 3/8" and 1/2" (Adj. Model)	90003-081	7.16
O-Ring for Adaptor 3/4" (Adj. Model)	90003-110	12.50
O-Ring for Adaptor 1" (Adj. Model)	90003-082	7.70
Cap for F-55250	76001-080	17.59
Cap for F-55375, F-55376, F-55500	91001-032	20.07
Cap for F-55750	91001-033	23.38
Cap for F-55200, F-55005, F-55010, F-55015	91001-160	52.10
Panel Lock Nut 3/4" MPT	91001-171	6.26
Panel Lock Nut 1" MPT	91001-172	7.29
Panel Lock Nut 1/4" and 3/8" MPT	91001-153	4.12
Panel Lock Nut 1/2" MPT	91001-154	4.61
O-Ring for Adaptor 1/4" (Std. Model)	90003-072	6.66
O-Ring for Adaptor 3/8" and 1/2" (Std. Model)	90003-034	4.53
O-Ring for Adaptor 3/4" (Std. Model)	90003-081	7.04
O-Ring for Adaptor 1" (Std. Model)	90003-110	12.50

\*Note: This part requires an O-Ring