

About Us

United Benefit Corporation (UBC), was established in 1991, and is the first company in Taiwan that both designs and manufactures industrial products for the most demanding industries such as: electroplating, semiconductors, pollution control and PCB. UBC primarily produces industrial strength precision Nozzles and Flowmeters for industry leading companies such as Sanyang Motor, China Steel, Manz, Compeq, Hitachi and Kinsus. UBC global brands: Kingspray and LORRIC are known worldwide for durability and performance.

Since UBC was founded over two decades ago, the principles of professionalism and precision have been at the core of the company's culture. This is clearly evident in UBC's industry leading designs, efficient manufacturing and installation processes. UBC continually strives for the highest levels of professionalism toward customers and precision toward products.

We welcome direct inquiries from existing and potential future clients. Please feel free to call on us to enquire about how we can be at your service.

SPP



Features

- · Unibody design with no internal parts
- · Clog-resistant performance
- · Standard thread is BSPT Male
- · Wide range of flowrates and spray angles
- · Fine atomization
- · Spray patterns: Full Cone.
- Spray angles: 120° to 170°
- Recommended working pressure:2kg/cm²
- Flowrate tolerance:± 5%
- Angle tolerance:± 5°

Applications

- Cleaning: Gas (Scrubber Applications),
 Fire Cleanup, Cleaning Machinery, Mesh,
 Tank, Parts, Rubble, Hoggin, etc.
- Cooling: Gas, Machinery, Tank, Plate Steel, etc.
- Spreading: Sewage Treatment, Aeration, Defoaming, Fire Prevention, Fire Protection, Dust Suppression, etc.

Madal	Throad		Dimens	ion(mm)	Material
Model	Thread		А	В	Material
SPP	A B	1/2" BSPT Male	77	22	PVC, Teflon

Flow	1/4"	3/8"	1/2"	3/4"	F	low Rang	e (L/min)	to Pressu	re (kg/cm ²	²)	Anglo	Min. Free	Eq. Orifice	
Code	1/4	3/0	1/2	3/4	0.5	0.7	1.0	2.0	3.0	5.0	Angle	Passage (mm)	(mm)	
4.5	•				2.3	2.7	3.2	4.5	5.5	7.1	120°	-	-	
52.7		•			26.4	31.2	37.3	52.7	64.5	83.3	170°	-	-	
105			•		53	62	74	105	129	166	170°	3.3	11.0	
134				•	67	79	95	134	164	212	170°	-	-	

- The NPT thread and the BSPT female thread are manufactured to order.
- Please contact us to check stock availability before placing your order.

	-			
Thread	Model	Flow Code	Angle	Material
1/2"	SPP	105	170	PVC

LORRIC®

H AH NH VH V



Spray Pattern



Features

- · High impact.
- · Medium size particle size.
- · Produces an eye shaped spray pattern.
- Hexagon body for easy installation, and distortion resistance.
- · Recommended working pressure:3kg/cm²
- Flowrate tolerance:± 5%
- Angle tolerance:± 5°

Applications

PCB Wet Processing, Display Panel Wet Processing, High Pressure Cleaning, Dust And Powder Washing, Gravel Washing, Gas Washing, Solution Dispersion, General Humidifying, and Steel Cooling.

	Model	Model Features	Thread		U	nit (mr	n)	Material
	Model	Model Features	(BSPT)		Α	В	С	wateriai
			A B	1/8"Male (Metal)	12	12	19	
Н				1/4"Male (Metal)	14	15	26	AISI303
				3/8"Male (Metal)	18	15	30	AISI316 BRASS
AH		There are two parallel planes to facilitate alignment during installation.	A C	1/8"Male (PP)	11.75	10.3	19	HSS PP
NH		It is especially recommended to use the AH/NH-type for smaller flowrates.		1/4"Male (PP)	13.7	13.7	25	
	(0)		C B B	1/8"Male	11.8	10.3	19	
VH		 PVDF is resistant to temperature and corrosive chemical solutions. 	FINI	1/4"Male	15	10.5	21.4	PVDF
				3/8"Male	16.7	13	24.6	
V		 Optimal for small flowrates. PVDF is resistant to temperature and corrosive chemical solutions. 	A B	1/4"Male	14	13.7	25	PVDF

Flow	1/8"	1/4"	3/8"		Flow R	ange (L/r	nin) to Pi	ressure (kg/cm²)		
Code	1/0	1/4	3/0	0.5	1.0	2.0	3.0	4.0	5.0	6.0	
01	•	•		0.16	0.23	0.32	0.39	0.45	0.5	0.55	
02	•	•		0.32	0.45	0.64	0.78	0.90	1.01	1.11	
03				0.48	0.68	0.96	1.17	1.35	1.51	1.66	
04				0.64	0.90	1.28	1.56	1.81	2.02	2.21	
05				0.80	1.13	1.60	1.96	2.26	2.52	2.76	Standard nozzle spray
06		•		0.96	1.35	1.92	2.35	2.71	3.03	3.32	angle at 3kg/cm² pressure:
80				1.28	1.81	2.55	3.13	3.61	4.04	4.42	65°, 80° and 90°.
10				1.60	2.26	3.19	3.91	4.52	5.05	5.53	• Also available at angle 0°,
12.5		•		2.00	2.82	3.99	4.89	5.64	6.31	6.91	15°, 25°, 40°, 50°, 100° and 120° by custom order.
15		•		2.40	3.39	4.79	5.87	6.77	7.57	8.29	120 by custom order.
20	•	•		3.19	4.52	6.39	7.82	9.03	10.10	11.06	
25				3.99	5.64	7.98	9.78	11.29	12.62	13.82	
30			•	4.79	6.77	9.58	11.73	13.55	15.14	16.69	
50			•	7.98	11.29	15.96	19.55	22.58	25.24	27.65	
80			•	12.77	18.06	25.54	31.28	36.12	40.38	44.24	
100			•	15.96	22.58	31.93	39.10	45.15	50.48	55.30	

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Thread	Nozzle Series	Flow Code	Angle	Material
1/4"	Н	10	65	AISI316



QFH QFYH



Spray Pattern



FEATURES

- · High impact.
- Two piece nozzle design enables quick and accurate installation by hand.
- PVDF and PP materials are temperature and chemical resistant.
- · O-rings are available in EPDM or VITON materials.
- Recommended working pressure:3kg/cm²
- Flowrate tolerance:± 5%
- Angle tolerance:± 5°

APPLICATIONS

Washing, Cleaning, Humidifying, Distribution, Cooling and Water Curtain.

			and water of	1			
	Model	Thread (BS	PDT)		Unit(mm)		Material
	Model	Tillead (Bell 1)			В	С	Material
	Тір		1/8" Male	32	27.5	39	
QFH	O-ring Body	C B	1/4" Male	32	27.5	42.6	PVDF
			3/8"Male	32	27.5	42.6	
	Tip		1/8" Male	36	27.5	39	
QFYH	O-ring Body	C B	1/4" Male	36	27.5	42.6	PP, PVDF
	Body		3/8"Male	36	27.5	42.6	

Flow			Flow Ra	ange (L/min)	Pressure ((kg/cm²)			
Code	0.5	0.7	1.0	2.0	3.0	4.0	5.0	6.0	
01	0.16	0.19	0.23	0.32	0.39	0.45	0.5	0.55	
02	0.32	0.38	0.45	0.64	0.78	0.90	1.01	1.11	
03	0.48	0.57	0.68	0.96	1.17	1.35	1.51	1.66	Standard nozzle
04	0.64	0.76	0.90	1.28	1.56	1.81	2.02	2.21	spray angle at 3kg/ cm² pressure: 65°,
05	0.80	0.94	1.13	1.60	1.96	2.26	2.52	2.76	80° and 90°.
06	0.96	1.13	1.35	1.92	2.35	2.71	3.03	3.32	Also available at
80	1.28	1.51	1.81	2.55	3.13	3.61	4.04	4.42	angle 0°, 15°, 25°, 40°, 50°, 100° and
10	1.60	1.89	2.26	3.19	3.91	4.52	5.05	5.53	120° by custom
12.5	2.00	2.36	2.82	3.99	4.89	5.64	6.31	6.91	order.
15	2.40	2.83	3.39	4.79	5.87	6.77	7.57	8.29	
20	3.19	3.78	4.52	6.39	7.82	9.03	10.10	11.06	
25	3.99	4.72	5.64	7.98	9.78	11.29	12.62	13.82	
30	4.79	5.67	6.77	9.58	11.73	13.55	15.14	16.69	

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EB HB BB TB



Spray Pattern

Features

- Adjustable female nut allows for easy nozzle angle modifications.
- Unique pipe clamp design enables quick and easy installation onto any pipe without special tools.
- Recommended working pressure: 1kg/cm²
- Flowrate tolerance: ± 5%.
- EB Clamp can tolerate 3.0-4.0kg/cm² pressure at room temperature.

Applications

Coating pretreatment, Busket Cleaning, Car Washing Machine

	Model		Model Features	Material
	Nut	НВ	 Recommended maximum working temperature: 60°C Well-distributed flat spray Hollow sphere shape nozzle provides great "anti clogging" function. 	
ТВ	BB HB Ball Sealing Ring	ВВ	Stopper Nozzle	 HB, BB: PP TB, EB Clamp, and Nut: Strengthened Fiberglass
	EB Clamp	ТВ	TB is available with a 1/4" or 3/8" PT female thread for flexible use with other kind of nozzles.	PPPipe Clamp: Stainless 316Sealing Ring: NBREB Sealing Ring: NBR
	Pipe Clamp EB Sealing Ring	EB Clamp	 Installation hole diameter: Ø 15 (14.3~15m/m) Ø 17 (16.4~17m/m) Ø 20 (19.0~20m/m) Fits 1", 1-1/4", 1-1/2" sizes pipe. 	

Flow	Color		Flow Ra	nge (L/min)	to Pressure	(kg/cm²)		
Code	Color	0.5	1.0	1.2	1.5	2.0	3.0	
10	Light Blue	1.60	2.26	2.47	2.76	3.19	3.91	
20	Red	3.19	4.52	4.95	5.53	6.39	7.82	
30	Orange	4.79	6.77	7.42	8.29	9.58	11.73	 Available Nozzle Spray Angle at 1kg/cm² pressure: 65°
35	Black	5.59	7.90	8.66	9.68	11.17	13.69	and 80°.
40	Yellow	6.39	9.03	9.89	11.06	12.77	15.64	
50	Navy Blue	7.98	11.29	12.37	13.82	15.96	19.55	
60	Green	9.58	13.55	14.84	16.59	19.16	23.46	

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O : 0: 0::				
Pipe clamp	Drilling hole	Nozzle Series	Flow Code	Angle
1-1/4"	EB 15	НВ	30	65
1"	EB 17	BB		





Spray Pattern



Features

- · Full cone spray.
- · Unibody design allows for secure and easy installation.
- X-shaped core provides minimal clogging.
- Recommended working pressure: 2kg/cm²
- Flowrate Tolerance: ± 5%
- Angle Tolerance: ± 5°

Applications

Industrial Cleaning, Purging, Cooling

	Model	Model Features	Thread	U	nit (mr	Material		
	Wodel	Woder Features	(BSPT)	Α	В	С	Material	
VD.				1/8"Male	12	12	19	AISI303
KP in metal				1/4"Male	14	11-15	22-26	AISI316 BRASS
metai				3/8"Male	18	15	30	

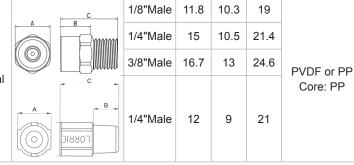






2014 model

- One piece body with removable core for easy cleaning and maintenance.
- Highly durable PVDF material is ideal for use under high temperatures and/or with highly corrosive chemicals.







 One piece body with removable core for easy cleaning and maintenance.

	C	
A	В	1

1	1/8"Male	11.8	10.3	19	
n	1/4"Male	15	11.3	21.4	
	3/8"Male	16.7	13	24.6	

PP Core: PP

Flow	1/8"	1/4"	3/8"		Flow R						
Code	1/6	1/4	3/6	0.5	1.0	1.5	2.0	3.0	5.0	6.0	
010	•	•		0.50	0.71	0.87	1.00	1.22	1.58	1.73	
015	•	•		0.75	1.06	1.30	1.50	1.84	2.37	2.60	
020	•	•		1.00	1.41	1.73	2.00	2.45	3.16	3.46	
025	•	•		1.25	1.77	2.17	2.50	3.06	3.95	4.33	Standard nozzle spray
030	•	•		1.50	2.12	2.60	3.00	3.67	4.74	5.20	angle at 3kg/cm ²
035	•	•	•	1.75	2.47	3.03	3.50	4.29	5.53	6.06	pressure: 60°. • Also available at
040		•	•	2.00	2.83	3.46	4.00	4.90	6.32	6.93	angle 90° and 120° by
050		•	•	2.50	3.54	4.33	5.00	6.12	7.91	8.66	custom order.
060		•	•	3.00	4.24	5.20	6.00	7.35	9.49	10.39	
070		•	•	3.50	4.95	6.06	7.00	8.57	11.07	12.12	
080		•	•	4.00	5.66	6.93	8.00	9.80	12.65	13.86	
100			•	5.00	7.07	8.66	10.00	12.25	15.81	17.32	
120			•	6.00	8.49	10.39	12.00	14.70	18.97	20.78	

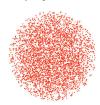
- The NPT thread and the BSPT female thread are manufactured to order.
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Thread Connection	Nozzle Series	Flow Code	Angle	Material
3/8"	KPMF	120	60	AISI303

LORRIC* KPMF



Spray Pattern



Features

- · Full cone spray.
- · Unibody Design
- Multi-slotted core provides more uniform impact than other full cone nozzles
- Recommended working pressure: 2kg/cm²
- Flowrate Tolerance: ± 5%
 Angle Tolerance: ± 5°

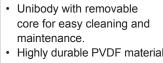
Applications

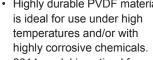
Industrial Cleaning, Purging, Cooling, Etching, Developing

Model Model Fea		Model Features	Thread				n)	Material
imodel model readules (E			(BSPT)		Α	В	С	Material
KPMF			C B	1/8"Male	12	12	19	AISI303
in Metal				1/4"Male	14	15	26	AISI316 BRASS
				3/8"Male	18	15	30	



2014 model





 2014 model is optimal for small flowrates.

	с <u>В</u> <u>В</u>	1/4"Male	12	9	21	CORE: PVDF (by special order)
al		3/8"Male	16.7	13	24.6	CORE: PVC
		1/4"Male	15	10.5	21.4	PVDF
	C B	1/8"Male	11.8	10.3	19	

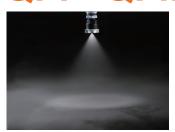
Flow Range (L/min) to Pressure (kg/cm²)											
Code	1/8"	1/4"	3/8"	0.5	1.0	1.5	2.0	3.0	5.0	6.0	
010	•	•		0.50	0.71	0.87	1.00	1.22	1.58	1.73	
015	•	•		0.75	1.06	1.30	1.50	1.84	2.37	2.60	
020	•	•		1.00	1.41	1.73	2.00	2.45	3.16	3.46	
025	•	•		1.25	1.77	2.17	2.50	3.06	3.95	4.33	- Standard nazzla apro
030	•	•		1.50	2.12	2.60	3.00	3.67	4.74	5.20	 Standard nozzle spra angle at 3kg/cm²
035	•	•	•	1.75	2.47	3.03	3.50	4.29	5.53	6.06	pressure: 60°. • Also available at
040		•	•	2.00	2.83	3.46	4.00	4.90	6.32	6.93	angle 90° and 120° b
050		•	•	2.50	3.54	4.33	5.00	6.12	7.91	8.66	custom order.
060		•	•	3.00	4.24	5.20	6.00	7.35	9.49	10.39	
070		•	•	3.50	4.95	6.06	7.00	8.57	11.07	12.12	
080		•	•	4.00	5.66	6.93	8.00	9.80	12.65	13.86	
100			•	5.00	7.07	8.66	10.00	12.25	15.81	17.32	
120			•	6.00	8.49	10.39	12.00	14.70	18.97	20.78	

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Thread Connection	Nozzle Series	Flow Code	Angle	Material
3/8"	KPMF	120	60	AISI303



QFF QFMF QFYF



Spray Pattern



FEATURES

- Two piece nozzle design allows for quick and accurate installation by hand.
 PVDF and PP materials are temperature and chemicals
- resistant.
- · O-rings are available in EPDM or VITON materials
- Recommended working pressure: 2kg/cm²
 Flowrate Tolerance: ± 5%
 Angle Tolerance: ± 5°

APPLICATIONS

Acid-Washing Chemical Treatment, Chemical Distribution, Etching (ex: Semiconductor, PCB and Panel)

	Model	Model Features	Thread (BS	SDT)	Uı	nit (m	m)	Material
	Model	Woder Features	Tilleau (D.	3F 1 <i>)</i>	Α	В	С	Material
	Tip			1/8"Male	31.6	27.5	39	PVDF or PP Core: PP
QFF	O-ring	X-Core design provides larger particle passage.	C	1/4"Male	31.6	27.5	42.6	Core: PVDF
	Body	Body Body		3/8"Male	31.6	27.5	42.6	(by speical order)
	Tip	 Optimal for small flowrates. Utilizes a Multi-Slotted-Core to		1/8"Male	31.6	27.5	39	PVDF or PP
QFMF	deliver a more uniform impact than other standard solid cone nozzles.		C	1/4"Male	31.6	27.5	42.6	Core: PVC
	Body Body	pattern control. Available distribution patterns: mountain type, even type, and donut type	4	3/8"Male	31.6	27.5	42.6	(by speical order)
	Tip			1/8"Male	35	27.5	39	PVDF or PP Core: PVC
QFYF	• X-Core design provides larger particle passage.		B	1/4"Male	35	27.5	42.6	Core: PVDF
	Body		4	3/8"Male	35	27.5	42.6	(by speical order)

Flow			Flow Range	(L/min) Pres	sure (kg/cm²)			
Code	0.5	0.7	1.5	2.0	3.0	5.0	6.0	
010	0.50	0.59	0.87	1.00	1.22	1.58	1.73	
015	0.75	1.06	1.30	1.50	1.84	2.37	2.60	
020	1.00	1.18	1.73	2.00	2.45	3.16	3.46	
025	1.25	1.48	2.17	2.50	3.06	3.95	4.33	Standard nozzle
030	1.50	1.77	2.60	3.00	3.67	4.74	5.20	spray angle at 3kg/
035	1.75	2.07	3.03	3.50	4.29	5.53	6.06	cm² pressure: 60°.
040	2.00	2.37	3.46	4.00	4.90	6.32	6.93	Also available at
050	2.50	2.96	4.33	5.00	6.12	7.91	8.66	angle 90° and 120°
052	2.60	3.68	4.50	5.20	6.37	8.22	9.01	by custom order.
060	3.00	3.55	5.20	6.00	7.35	9.49	10.39	
070	3.50	4.14	6.06	7.00	8.57	11.07	12.12	
080	4.00	4.73	6.93	8.00	9.80	12.65	13.86	
100	5.00	5.92	8.66	10.00	12.25	15.81	17.32	
120	6.00	7.10	10.39	12.00	14.70	18.97	20.78	

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LORRIC®

ED (Eductor Nozzle)



Features

- Specially designed nozzle that creates a stirring and circulating effect. This nozzle can mix chemicals, direct the suspended substances to a filter and prevent precipitation.
- The eductor design enables the system to increase liquid flowrate by up to five times (by volume) from the tank significantly reducing the energy consumption
- · One-piece design for easy and quick installation by hand.

Applications

Automobile Coating, Painting, Anodising Tank Mixing, Ionic-Exchange Facility, Cooling Tower, C.I.P Tanks,Phosphatic Tank, Paint Stirring Tank, etc.

Model		Thread			(mm)	Material	
	Model	(BSPT)			В	iviaterial	
		B	3/8" BSPT Male	115.9	53.5	Strengthened Fiberglass PP,	
ED			3/4" BSPT Male	159	74.4	AISI316	

Thread	Flow Range (L/min) to Pressure (kg/cm²)									
Thread	1	1.5	2	3	4	5	7			
3/8"	34.36	42.09	48.6	59.52	68.73	76.84	90.92			
3/4"	61.87	75.77	87.49	107.15	123.73	138.33	163.68			

- The NPT thread and the BSPT female thread are manufactured to order.
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Thread	Nozzle Series	Material
3/8"	ED	Strengthened Fiberglass PP



F10 Series



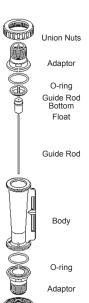
Features

- · Patented dual-indicator design for easy and clear flow range management.
- · Laser engraved degree scales provide better readability and longer life.
- · Available in customizable units and specific gravity (SG).
- · Each batch of flowmeters will be calibrated before delivery for our best precision guarantee.
- · Perpendicular joint is available for space saving installation.
- · Hastelloy float is available for specific high PH liquid usage.

Operating Conditions

- Full Scale Accuracy: ±5%.
- Max. working pressure: 6.0kg/cm².

Parts



Union Nuts

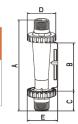
Model	F10 PC	F10 PSU	F10H PSU		
Applicable Fluid	Tape Water	Chemical and Non-organic Solvents	When chemicals are corrosive to stainless steel		
Recommended Highest Operating Temperature	50°C(UPVC Adaptor)				
	0.2 - 2.0 LP	M / AISI316	0.2 - 2.0 LPM / Hastelloy C		
	0.4 - 4.0 LP	M / AISI316	0.4 - 4.0 LPM / Hastelloy C		
Scale Range(L/min) /	0.5 - 5.0 LP	M / AISI316	0.5 - 5.0 LPM / Hastelloy C		
Float Material	1.0 - 10 LP	M / AISI316	1.0 - 10 LPM / Hastelloy C		
	1.5 - 15 LP	M / AISI316	1.5 - 15 LPM / Hastelloy C		
	2.0 - 20 LP	M / AISI316	2.0 - 20 LPM / Hastelloy C		
Guide Rod Material	AIS	1316	Ti / Hastelloy C		
O-ring Material		EPDM / VI	VITON		
Union Nuts Material		UPVC / P	SU		
Guide Rod Bottom Material	UPVC / PSU				
Adaptor Size and Adaptor Material		Male / Female Threa 1/2" Welding Typ 1/2" butt-fusion PP / " Panel Elbow PT Ma	Adaptor (PP)		

- · Liquid flowmeters are calibrated for 20°C water. Gas flowmeters are calibrate for normal condition. (0°C, 1 atm)
- All adaptors can be manufactured to order, please contact us for price and lead time.
- Above temperature information is for reference only and may not be applicable for all environments.

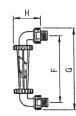
Di

imensions				U	nit:mm
Adaptor specification	Α	В	С	D	Е
1/2" PT Male / Female Thread or Welding Adaptor	168	90	40	41	45

- A: Total Length (with adaptor)
- B: Body length (without adaptor and union nut)
- C: Nut + Adaptor length
 D: Union Nut Diameter
- E: Total Width



			Unit:mm
Adaptor specification	F	G	Н
1/2" Panel Elbow	151	187	45



I I ... : 4

Model	Body	Scale Range	Adaptor Size	O-ring
F10	PC	20LPM	1/2"PT Male thread	EPDM

F22 Series



Features

- · Designed for use with highly corrosive solutions.
- Equipped with an inductor, which confirms the pipeline's current capacity by means of detecting the floating migration. The inductor can be connected instruments or computers and is often used as part of the control or alarm system.
- Patented dual-indicator design for easy and clear flow range management.
- Laser engraved degree scales provide better readability and longer
- · Available in customizable units and specific gravity (SG).
- Each batch of flowmeters will be calibrated before delivery for our best precision guarantee.

Operating Conditions

- Full Scale Accuracy: ±5%.
- Max. working pressure: 6.0kg/cm².

Parts

	Union Nuts
	Adaptor
	O-ring Jpper Float Holder Float
	Body
	Lower Float Holder O-ring
9	Adaptor
	Union Nuts

Model	F22 PSU	Magnet F22 PSU			
Applicable Fluid	For Highly Corrosive Solutions				
Recommended Highest Operating Temperature	50°C (UPVC Adaptor) 60°C (PP Adaptor) 100°C (PSU Adaptor)				
	0.3 - 4.0 LPM / PVC / Red	0.5 - 6.0 LPM / PP / Red			
Scale Range(L/min) /	0.5 - 5.0 LPM / PVDF / colorless transparent	1.0 - 11 LPM / PVDF / Red			
Float Material / Float Color	0.8 - 8.0 LPM / Teflon / White				
1 loat ooloi	1.0 - 10 LPM / Teflon / White				
	50 - 500 LPH / Teflon / White				
O-ring Material	EPDM / VITON				
Union Nuts Material	UPVC / PSU				
Float Holder Material	PP				
Adaptor Size and Adaptor Material	3/4" PT Male / Female Thread (UPVC / PSU / PP) 3/4"Welding Type (UPVC) 3/4" PP Butt Fusion				

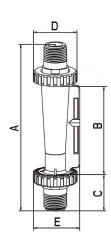
- Liquid flowmeters are calibrated for 20°C water. Gas flowmeters are calibrate for normal condition. (0°C , 1 atm)
- All adaptors can be manufactured to order, please contact us for price and lead time.
- Above temperature information is for reference only and may not be applicable for all environments.

Dimensions

Dimensions Unit:mm							
Adaptor specification	А	В	С	D	Е		
3/4" PT Male / Female Thread	192	106	42	51	54		
3/4" Welding Adaptor	196	106	44.5	51	54		
A: Total Length (with adaptor) B: Bo	dy length (with	out adaptor an	d union nut)	C: Nut + Adap	otor length		

A: Total Length (with adaptor) D: Union Nut Diameter E: Total Width

Model	Body	Scale Range	Adaptor Size	O-ring
F22	PSU	10LPM	3/4" Welding	VITON
Magnet F22	PSU	11LPM	3/4" PT Male thread	VITON



F30 Series



Features

- · Patented dual-indicator design for easy and clear flow range management.
- · Laser engraved degree scales provide better readability and longer life.
- · Available in customizable units and specific gravity (SG).
- Each batch of flowmeters will be calibrated before delivery for our best precision guarantee.
- · Perpendicular joint is available for space saving installation.
- · Hastelloy float is available for specific high PH liquid usage.

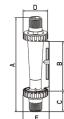
Operating Conditions

- Full Scale Accuracy: ±5%.
- Max. working pressure: 6.0kg/cm².

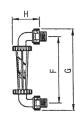
Parts		Model	F30 PC	F30 PSU	F30A PSU / F30AH PSU	F30H
00000	Union Nuts Adaptor	Applicable Fluid	Tape Water	Chemical and Non- organic Solvents	Air	When chemicals are corrosive to stainless steel
Ö	O-ring	Recommended Highest	50°C(UPVC		60°C (PP A	
8	Guide Rod Bottom	Operating Temperature	Adaptor)		100°C (PSL	Adaptor)
Ŭ	Float		2.0 - 20 LPI	M / AISI316	40 - 400 NLPM / PVC	2.0 - 20 LPM / Hastelloy C
			3.0 - 30 LPM / AISI316		50 - 500 NLPM / PVC	3.0 - 30 LPM / Hastelloy C
	Guide Rod		4.0 - 40 LPM / AISI316		70 - 700 NLPM / PVC	4.0 - 40 LPM / Hastelloy C
	Body	Scale Range(L/min) /	5.0 - 50 LPM / AISI316		100 - 1000 NLPM / AISI316	5.0 - 50 LPM / Hastelloy C
		Float Material	6.0 - 60 LPI	M / AISI316	100 - 1000N LPM / Hastelloy C	6.0 - 60 LPM / Hastelloy C
			7.0 - 70 LPI	M / AISI316		7.0 - 70 LPM / Hastelloy C
			8.0 - 80 LPM / AISI316			8.0 - 80 LPM / Hastelloy C
			10 - 100 LPM / AISI316			10 - 100 LPM / Hastelloy C
	O-ring	Guide Rod Material	AISI	316	AISI316 / Ti / Hastelloy C	Ti / Hastelloy C
7	Adaptor	O-ring Material			EPDM / VITON	
		Union Nuts Material			UPVC	
	Union Nuts	Guide Rod Bottom Material	PVDF			
		Adaptor Size and Adaptor Material			SU / PP) C)	

- · Liquid flowmeters are calibrated for 20°C water. Gas flowmeters are calibrate for normal condition. (0°C, 1 atm)
- All adaptors can be manufactured to order, please contact us for price and lead time.
- · Above temperature information is for reference only and may not be applicable for all environments.

Dimensions Unit:mm					
Adaptor specification	А	В	С	D	Е
1"PT Male / Female Thread	270	172	50	60	66
1"Welding Adaptor	255	172	42	60	66
1"Welding	255	172	42	60	



			Unit:mm
Adaptor specification	F	G	н
Panel Elbow	270	172	65



A: Total Length (with adaptor)
B: Body length (without adaptor and union nut)
C: Nut + Adaptor length
D: Union Nut Diameter

E: Total Width

	•			
Model	Body	Scale Range	Adaptor Size	O-ring
F30	PC	100LPM	1" PT Male hread	EPDM
F30A	PSU	1000NLPM	1"Welding	VITON

F32B Series



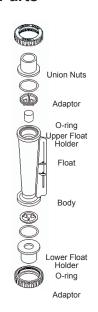
Features

- · Designed for use with highly corrosive solutions.
- Equipped with an inductor, which confirms the pipeline's current capacity by means of detecting the floating migration. The inductor can be connected instruments or computers and is often used as part of the control or alarm system.
- Patented dual-indicator design for easy and clear flow range management.
- Laser engraved degree scales provide better readability and longer life
- · Available in customizable units and specific gravity (SG).
- Each batch of flowmeters will be calibrated before delivery for our best precision guarantee.

Operating Conditions

- Full Scale Accuracy: ±5%.
- Max. working pressure: 6.0kg/cm².

Parts



Model	F32B PSU	Magnet F32B PSU			
Applicable Fluid	For Highly Corrosive Solutions				
Recommended Highest Operating Temperature	50°C (UPVC Adaptor) 60°C (PP Adaptor) 100°C (PSU Adaptor)				
	9.0 - 18 LPN	9.0 - 18 LPM / PP / Red			
Scale Range(L/min) /	16 - 32 LPM / PP / Red				
Float Material / Float Color	30 - 60 LPM / PP / Red				
	45 - 90 LPM / PP / Red				
O-ring Material	EPDM /	VITON			
Union Nuts Material	UP	VC			
Float Holder Material	PP				
Adaptor Size and Adaptor Material	1"Welding T	read (UPVC / PSU / PP) ype (UPVC) itt Fusion			

- Liquid flowmeters are calibrated for 20°C water. Gas flowmeters are calibrate for normal condition. (0°C, 1 atm)
- All adaptors can be manufactured to order, please contact us for price and lead time.
- Above temperature information is for reference only and may not be applicable for all environments.

Dimensions

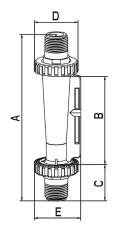
Unit:mm

Adaptor specification	А	В	С	D	Е
1" Welding Adaptor	195	112	42	60	66

A: Total Length (with adaptor)
D: Union Nut Diameter

B: Body length (without adaptor and union nut) C: Nut + Adaptor length E: Total Width

	•			
Model	Body	Scale Range	Adaptor Size	O-ring
F32B	PSU	30-60LPM	1"Welding	VITON
Magnet F32B	PSU	16-32LPM	1"PT Male thread	VITON





F34 Series



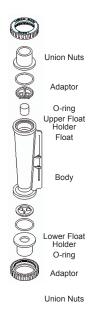
Features

- · Designed for use with highly corrosive solutions.
- Equipped with an inductor, which confirms the pipeline's current capacity by means of detecting the floating migration. The inductor can be connected instruments or computers and is often used as part of the control or alarm system.
- Patented dual-indicator design for easy and clear flow range management.
- Laser engraved degree scales provide better readability and longer
- · Available in customizable units and specific gravity (SG).
- Each batch of flowmeters will be calibrated before delivery for our best precision guarantee..

Operating Conditions

- Full Scale Accuracy: ±5%.
- Max. working pressure: 6.0kg/cm².

Parts



Model	F34 PSU	Magnet F34 PSU			
Applicable Fluid	For Highly Corrosive Solutions				
Recommended Highest Operating Temperature	50°C (UPVC Adaptor) 60°C (PP Adaptor) 100°C (PSU Adaptor)				
	3.0 - 30 LPN	/I / PP / Red			
	5.0 - 50 LPM / PP / Red				
Scale Range(L/min) / Float Material /	6.0 - 60 LPM / PP / Red				
Float Color	8.0 - 80 LPM / PP / Red				
1 1001 00101	10 - 100 LPM / PP / Red				
	12 - 120 LPM / PP / Red (Developing)				
O-ring Material	EPDM /	VITON			
Union Nuts Material	UP'	VC			
Float Holder Material	Р	P			
Adaptor Size and Adaptor Material	1" PT Male / Female Thi 1" Welding T 1" PP Bu	ype (UPVC)			

- · Liquid flowmeters are calibrated for 20°C water. Gas flowmeters are calibrate for normal condition. (0°C, 1 atm)
- · All adaptors can be manufactured to order, please contact us for price and lead time.
- · Above temperature information is for reference only and may not be applicable for all environments.

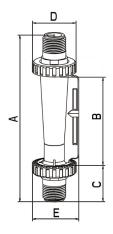
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Dimensions					Unit:mm
Adaptor specification	А	В	С	D	Е
1"Welding Adaptor	255	172	42	60	66
1"PT Male / Female Thread	270	172	50	60	66

A: Total Length (with adaptor) D: Union Nut Diameter

B: Body length (without adaptor and union nut)
C: Nut + Adaptor length E: Total Width

Model	Body	Scale Range	Adaptor Size	O-ring
F34	PSU	50 LPM	1"PT Female Thread	VITON
Magnet F34	PSU	80 LPM	1"Welding	VITON



F45 Series



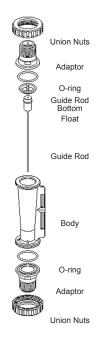
Features

- The flange flowmeter is equipped with four stainless steel poles on four sides and uses flange adaptor. This flowmeter is robust, highly secure and ideal for high pressure conditions. This flowmeter's lifetime is usually longer than ordinary flowmeters.
- Patented dual-indicator design for easy and clear flow range management.
- Laser engraved degree scales provide better readability and longer
- · Available in customizable units and specific gravity (SG).
- Each batch of flowmeters will be calibrated before delivery for our best precision guarantee.
- Hastelloy float is available for specific high PH liquid usage.

Operating Conditions

- Full Scale Accuracy: ±5%.
- Max. working pressure: 6.0kg/cm².

Parts

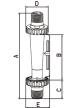


Model	F45 PC	F45 PSU	F45H PSU		
Applicable Fluid	Tape Water	Chemical and Non-organic Solvents	When chemicals are corrosive to stainless steel		
Recommended Highest Operating Temperature	50°C (UPVC Adaptor)		60°C (PP Adaptor) 100°C (PSU Adaptor)		
	10 - 100 LI	PM / AISI316	10 - 100 LPM / Hastelloy C		
Scale Range(L/min) / Float Material	15 - 150 LI	PM / AISI316	15 - 150 LPM / Hastelloy C		
	20 - 200 LPM / AISI316		20 - 200 LPM / Hastelloy C		
	25 - 250 LPM / AISI316		25 - 250 LPM / Hastelloy C		
Tiout Waterial	30 - 300 LI	PM / AISI316	30 - 300 LPM / Hastelloy C		
	50 - 450 LPM / AISI316		60 - 400 LPM / Hastelloy C		
	100 - 600 L	PM / AISI316	100 - 600 LPM / Hastelloy C		
Guide Rod Material	316SUS	5 / AISI316	Ti / Hastelloy C		
O-ring Material		EPDM /	VITON		
Union Nuts Material		UP	VC		
Guide Rod Bottom Material		Р	P		
Pole Material	AISI316 / 304SS / 420SS				
Adaptor Size and Adaptor Material	1-1/2", 2" PT Male / Female Thread (UPVC / PSU / PP) 1-1/2", 2" Welding Type (UPVC) 1-1/2", 2" PP Butt Fusion 2" Flange (UPVC)				

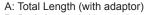
- · Liquid flowmeters are calibrated for 20°C water. Gas flowmeters are calibrate for normal condition. (0°C, 1 atm)
- All adaptors can be manufactured to order, please contact us for price and lead time.
- Above temperature information is for reference only and may not be applicable for all environments.

Dimensions Unit:mm Adaptor specification 1-1/2" Welding 109 187 86 120 Adaptor

- A: Total Length (with adaptor)
- B: Body length (without adaptor and union nut)
 C: Nut + Adaptor length
- D: Union Nut Diameter
- E: Total Width



			Unit:mm
Adaptor specification	А	В	С
2"Flange	390	187	155
3.1. 3 -			



B: Body length (without adaptor and union nut)

C: Total Width

Model	Body	Scale Range	Adaptor Size	O-ring
F45 Magnetic indicator	PSU	450 LPM	2" Welding	VITON

Magnetic Indicator Flowmeter (Patented)



Features

- Ideal for dark color and or solutions that easily precipitate .
- · Patented dual-indicator design for easy and clear flow range management.
- · Laser engraved degree scales provide better readability and longer life.
- · Available in customizable units and specific gravity (SG).
- · Each batch of flowmeters will be calibrated before delivery for our best precision guarantee.

Operating Conditions

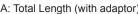
- Full Scale Accuracy: ±5%.
- Max. working pressure: 6.0kg/cm².

Model	F45 PSU
Applicable Fluid	Chemical and Non-organic Solvents
Recommended Highest Operating Temperature	50°C (UPVC Adaptor) 60°C (PP Adaptor) 100°C (PSU Adaptor)
	50-300 LPM / AISI316
Scale Range(L/min) / Float Material	50-450 LPM / AISI316
	100-600 LPM / AISI316
Guide Rod Material	316SUS / AISI316
O-ring Material	EPDM / VITON
Union Nuts Material	UPVC
Guide Rod Bottom Material	PP
Pole Material	AISI316 / 304SS / 420SS
Adaptor Size and Adaptor Material	1-1/2", 2" PT Male / Female Thread (UPVC / PSU / PP) 1-1/2", 2" Welding Type (UPVC) 1-1/2", 2" PP Butt Fusion 2" Flange (UPVC)



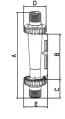
- · Liquid flowmeters are calibrated for 20°C water. Gas flowmeters are calibrate for normal condition. (0°C, 1 atm)
- All adaptors can be manufactured to order, please contact us for price and lead time.
- Above temperature information is for reference only and may not be applicable for all environments.

Dimensions Unit:mm						
Adaptor specification	Α	В	С	D	Е	
1-1/2" Welding Adaptor	346	187	86	109	120	



- A: Total Length (with adaptor)
 B: Body length (without adaptor and union nut)
 C: Nut + Adaptor length
 D: Union Nut Diameter

E: Total Width



			Unit:mm	
Adaptor specification	А	В	С	
2"Flange	390	187	155	
A T () () () ()				

- A: Total Length (with adaptor)
- B: Body length (without adaptor and union nut)
- C: Total Width



Model	Body	Scale Range	Adaptor Size	O-ring
F45 Magnetic indicator	PSU	450 LPM	2" Welding	VITON

F46 Series



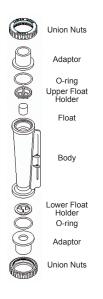
Features

- · Designed for use with highly corrosive solutions.
- Equipped with an inductor, which confirms the pipeline's current capacity by means
 of detecting the floating migration. The inductor can be connected instruments or
 computers and is often used as part of the control or alarm system.
- · Patented dual-indicator design for easy and clear flow range management.
- Laser engraved degree scales provide better readability and longer life.
- · Available in customizable units and specific gravity (SG).
- Each batch of flowmeters will be calibrated before delivery for our best precision guarantee.

Operating Conditions

- Full Scale Accuracy: ±5%.
- Max. working pressure: 6.0kg/cm².

Parts



Model	F46 PSU		
Applicable Fluid	For Highly Corrosive Solutions		
Recommended Highest Operating Temperature	50°C (UPVC Adaptor) 60°C (PP Adaptor) 100°C (PSU Adaptor)		
	20 - 100 LPM / Teflon / White		
Scale Range(L/min) / Float Material / Float Color	30 - 150 LPM / PP / Red (Developing)		
	40 - 200 LPM / PP / Red (Developing)		
	60 - 300 LPM / PP / Red (Developing)		
O-ring Material	EPDM / VITON		
Union Nuts Material	UPVC		
Float Holder Material	PP		
Adaptor Size and Adaptor Material	1-1/2", 2" PT Male / Female Thread (UPVC / PSU / PP) 1-1/2", 2" Welding Type (UPVC) 1-1/2", 2" PP Butt Fusion		

- · Liquid flowmeters are calibrated for 20°C water. Gas flowmeters are calibrate for normal condition. (0°C, 1 atm)
- All adaptors can be manufactured to order, please contact us for price and lead time.
- Above temperature information is for reference only and may not be applicable for all environments.

Dimensions

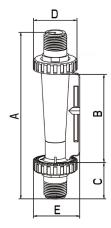
Unit:mm

Adaptor specification	Α	В	С	D	E
1-1/2"Welding Adaptor	346	187	86	109	120

A: Total Length (with adaptor)
D: Union Nut Diameter

B: Body length (without adaptor and union nut) C: Nut + Adaptor length E: Total Width

	•			
Model	Body	Scale Range	Adaptor Size	O-ring
F46	PSU	100 LPM	1-1/2" Welding	VITON





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