Flowmeter Overview

BFLC Series Oval Gear Flow Meters is a new kind positive displacement flowmeter developed specifically to serve as the heart in loading facilities at oil product depots. Contained in measuring chamber are a pair of rotators having special spiral gear teeth, the design of which is responsible for successfully eliminating pulsation in flow stream. The special sands proof and self-lubricant designing can measure sands content and high water contain oil. This type flowmeter has many advantages such as high accuract, high security, smooth running, low noise and long lifetime.

Analog Display

LCD display

Flow Range

Accuracy: 0.5%, 0.2% Temp.: -20-150 ° C Table 2

DN (mm)	Flow Range (m^3/h)												Litre/Pulse
	0.32~0.8mPa·s		0.8~2mPa·s		2~5mPa·s		5~400mPa·s		400~2000mPa·s		2000~20000mPa·s		
	Gasoline/LPG		Kerosene		Diesel Oil		Heavy /Crude Oil		High Viscosity Liquid		Extreme Viscosity Liquid		
	0.5%	0.2%	0.5%	0.2%	0.5%	0.2%	0.5%	0.2%	0.5%	0.2%	0.5%	0.2%	
15	0.6~3		0.4~4		0.4~4		0.4~4		0.3~2.4		0.3~2.4		0.001
25	3~8		1.5~10		1~10		1~10		1~8		1~6		
40	8~20	8~20	2.7~22	5.5~22	2.5~25	4.4~22	2.5~25	4.4~22	2.1~18	4.2~18	1.5~12	3~12	0.01
50	9~36	15~36	4.5~36	9~36	4~40	7.2~36	4~40	7.2~36	2.8~24	6~24	2.2~18	4.5~18	
80	20~80	32~80	10~80	20~80	9~90	16~80	9~90	16~80	6.5~56	14~56	5~40	10~40	
80A	25~100	30~90	10~90	20~90	10~100	20~100	10~100	20~100	10~60	12~60	5~50	10~50	
100	25~100	40~100	13~100	25~100	12~120	20~100	12~120	20~100	8.5~72	18~72	6.5~54	14~54	
100A	30~120	40~120	15~120	25~120	15~150	35~150	15~150	35~150	10~90	20~90	8~70	15~60	0.1
150	55~225	88~220	31~250	57~225	25~250	44~220	25~250	44~220	18~150	38~150	12~100	25~100	
200	90~360	150~360	50~400	90~360	40~400	72~360	40~400	72~360	28~240	53~210	20~160	40~160	
250	135~540	180~540	68~540	135~540	60~600	108~540	60~600	108~540	42~360	90~360	30~240	60~240	
300	220~900	300~900	112~900	225~900	100~1000	180~900	100~1000	180~900	70~600	150~600	54~450	113~450	
400	400~1600	550~1600	200~1600	400~1600	180~1800	320~1600	180~1800	320~1600	130~1100	275~1100	90~750	180~750	

Accuracy: 0.1% Temp.: -20-150 ° C Table 3

DN (mm)	Flow Range (m^3/h)							Litre/ Pulse
	0.32~2mPa·s		2~5mPa·s	5~50mPa·s	50~400mPa·s	400~2000mPa·s	2000~20000mPa·s	
	Gasoline/LPG	Kerosene	Diesel Oil	Crude Oil	Heavy Oil	High Viscosity Liquid	Extreme Viscosity Liquid	
40	11~22	9~22	7.5~22	7.5~22	7.5~22	4~12	3.3~10	0.01
50	18~36	14.4~36	12~36	12~36	12~36	7.5~22	6~18	
80	40~80	32~80	26.7~80	26.7~80	26.7~80	16~48	13~40	
100	50~100	40~100	34~100	34~100	34~100	24~72	18~54	
150	115~220	90~220	73~220	73~220	73~220	40~120	30~90	
200	180~360	144~360	120~360	120~360	120~360	60~180	50~150	0.1
250	270~540	216~540	180~540	180~540	180~540	100~300	60~180	
300	450~900	360~900	300~900	300~900	300~900	200~600	150~450	
400	800~1600	640~1600	530~1600	530~1600	530~1600	400~1200	250~700	

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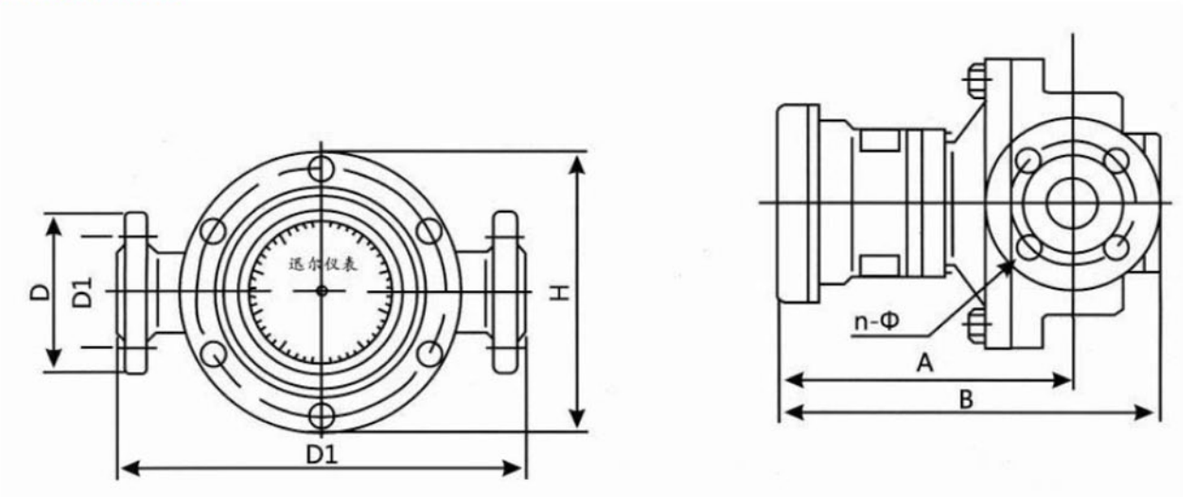
Dimensions



Diameter	Instrument material	L	H	B	A	D	D1	n	Φ
DN10	Cast iron	150	100	210	165	90	60	4	14
DN15	Cast iron	170	118	226	175	95	65	4	14
	Cast steel	200	138	232	180	105	75	4	14
	Stainless steel	245	120	226	172	95	65	4	14
DN20	Cast iron	200	150	238	180	105	75	4	14
	Cast steel	250	164	220	160	125	90	4	18
	Stainless steel	236	150	238	225	105	75	4	14
DN25	Cast iron	260	180	246	194	115	85	4	14
	Cast steel	300	202	252	185	135	100	4	18
	Stainless steel	287	195	246	232	115	85	4	14
DN40	Cast iron	245	180	271	200	145	110	4	18
	Cast steel	300	202	293	208	165	125	4	23
	Stainless steel	265	178	349	265	145	110	4	18
DN50	Cast iron	340	250	372	285	160	125	4	18
	Cast steel	384	262	394	312	175	135	4	23
	Stainless steel	265	178	349	265	160	125	4	18
DN65	Cast iron	420	325	433	360	195	160	8	18
	Stainless steel	365	260	436	319	180	145	4	18
DN80	Cast iron	420	325	433	360	195	160	8	18
	Cast steel	450	337	452	332	210	170	8	23
DN100	Cast iron	515	418	458	380	220	180	8	18
	Cast steel	555	442	478	310	250	200	8	25
DN150	Cast iron	540	510	557	400	280	240	8	23
	Cast steel	540	510	557	347	300	250	8	26
DN200	Cast iron	700	650	720	476	335	295	12	23
	Cast steel	650	650	720	476	360	310	12	26

Ordering

BFLC.				Description
Pipe Size	010			DN 10
	015			DN 15
	020			DN 20
	025			DN 25
	040			DN 40
	050			DN 50
	065			DN 65
	080			DN 80
	100			DN 100
	150			DN 150
	200			DN 200
	300			DN 300
	400			DN 400
Display		AD		Analog Display (only counter)
		AP		Analog Display with pulse output
		DD		LCD display (rate and total flow)
Body Material			1	Cast Iron
			2	Cast Steel
			3	Stainless Steel
Temperature			AT	-20...150°C
			HT	-20...250°C
Accuracy			05	±0,5%
			02	±0,2%
			01	±0,1%