

BONT Oval Flow Meter

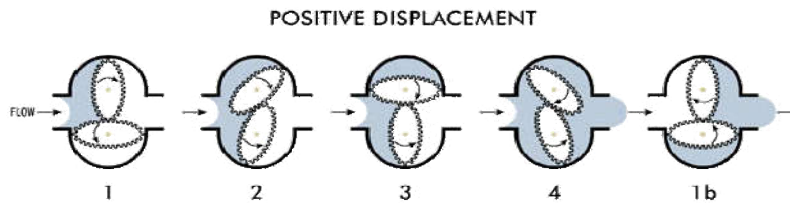


- High accuracy ,low repeatability
- Wide measurement range ,pipe size from DN10(mm) to DN200(mm)
- Low sensitivity to variance of viscosity ,suitable applied in be high viscosity liquid
- Simple structure, small size , light weight
- Transmitter selectable :
pulse ,4-20mA ,RS485 ,Hart

BONT – Oval Gear Flow Meter

Working Principle

As the rotors turn they sweep a measured volume of liquid through the measuring chamber



Parameter

- i. Measuring range of standard Bont Oval Gear Flow Meter

Diameter (mm)	Instrument Material	Measuring range in different viscosity (m³/h)			Pressure Level
		0.6-2Mpa.s	2-8Mpa.s	8-200Mpa.s	
DN10	Cast Iron	None	0.08-0.4	0.04-0.4	1.6/6.4
DN15	Cast Iron/Cast Steel	None	0.3-1.5	0.15-1.5	1.6/6.4
	Stainless Steel	0.5-1.5	0.3-1.5	0.25-1.5	1.6
DN20	Cast Iron/Cast Steel	0.75-3	0.4-3	0.3-3	1.6/6.4
	Stainless Steel	1-3	0.6-3	0.5-3	1.6
DN25	Cast Iron/Cast Steel	1.5-6	0.8-6	0.6-6	1.6/6.4
	Stainless Steel	2-6	1.2-6	1-6	1.6
DN40	Cast Iron/Cast Steel	3-15	2-15	1.1-1.5	1.6/6.4
	Stainless Steel	2.5-20	2-20	1.5-20	1.6
DN50	Cast Iron/Cast Steel	4.8-24	3-24	2.4-24	1.6/6.4
	Stainless Steel	8-24	4.8-24	4-24	1.6
DN65	Cast Iron	8-40	5-40	4-40	1.6/6.4
	Stainless Steel	15-40	8-40	6.5-40	1.6
DN80	Cast Iron/Cast Steel	12-60	8-60	6-60	1.6/6.4
DN100	Cast Iron/Cast Steel	20-100	13-100	10-100	1.6/6.4
DN150	Cast Iron/Cast Steel	38-190	24-190	19-190	1.6/2.5
DN200	Cast Iron/Cast Steel	68-340	45-340	34-340	1.6/2.5
Application Condition:					
1. Temperature of measured liquid : -20°C~+100°C					
2 . Accuracy Level :0.5 Level					

- ii. Measuring range of High Temperature Bont Oval Gear Flow Meter

Diameter (mm)	Instrument Material	Measuring range in different viscosity (m³/h)			Pressure Level
		0.8-2Mpa.s	2-8Mpa.s	8-200Mpa.s	
DN15	Cast Iron/Cast Steel	0.45-1.35	0.36-1.35	0.18-1.35	1.6/6.4
DN20	Cast Iron/Cast Steel	0.9-2.7	0.48-2.7	0.36-2.7	1.6/6.4
DN25	Cast Iron/Cast Steel	18-5.4	0.96-5.4	0.27-5.4	1.6/6.4
DN40	Cast Iron/Cast Steel	3.6-13.5	2.4-13.5	1.8-13.5	1.6/6.4
DN50	Cast Iron/Cast Steel	5.8-21.6	3.6-21.6	2.9-21.6	1.6/6.4
DN65	Cast Iron	9.6-36	6-36	4.8-36	1.6/6.4
DN80	Cast Iron/Cast Steel	15-54	9.6-54	7.2-54	1.6/2.5
DN100	Cast Iron/Cast Steel	24-90	22-90	12-90	1.6/2.5
Application Condition:					
1 . Temperature of measured liquid : +100°C ~ +200°C					
2 . Accuracy Level :0.5 Level					

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iii. Measuring range of High Viscosity Bont Oval Gear Flow Meter

Diameter(mm)	Instrument Material	Measuring Range (m³/h)	Pressure Level
DN10	Cast Iron/Cast Steel	0.02-0.2	1.6/6.4
DN15	Cast Iron/Cast Steel	0.075-0.75	1.6/6.4
DN20	Cast Iron/Cast Steel	0.15-1.5	1.6/6.4
DN25	Cast Iron/Cast Steel	0.3-3	1.6/6.4
DN40	Cast Iron/Cast Steel	0.75-7.5	1.6/6.4
DN50	Cast Iron/Cast Steel	1.2-12	1.6/6.4
DN65	Cast Iron	2-20	1.6/6.4
DN80	Cast Iron/Cast Steel	3-30	1.6/6.4
DN100	Cast Iron/Cast Steel	5-50	1.6/6.4
DN150	Cast Iron/Cast Steel	9.5-95	1.6/2.5
DN200	Cast Iron/Cast Steel	17.4-174	1.6/2.5

Application Condition:
 1 . Temperature of measured liquid : -10°C ~ +100°C
 2 . Viscosity of measured Liquid : 200-3000MPa.s
 3 . Accuracy Level : 0.5 Level

Model Selection

BT-OG					
Diameter					Three Digitals ; for example : 010 : 10mm ; 050 : 50mm
Instrument Type		1			Standard Type
		2			High Temperature Type
		3			High Viscosity Type
Instrument Material			1		Cast Iron
			2		Cast Steel
			3		Stainless Steel
Signal Output				1	No Signal Output
				2	Pulse Output
				3	4-20mA Output
EXP: BT-OG-050-1-1-1 (Bont Technologies Oval Gear Flow Meter ;Size DN50 (mm) ;Standard Type ;Material : Cast Iron ;No Signal Output					

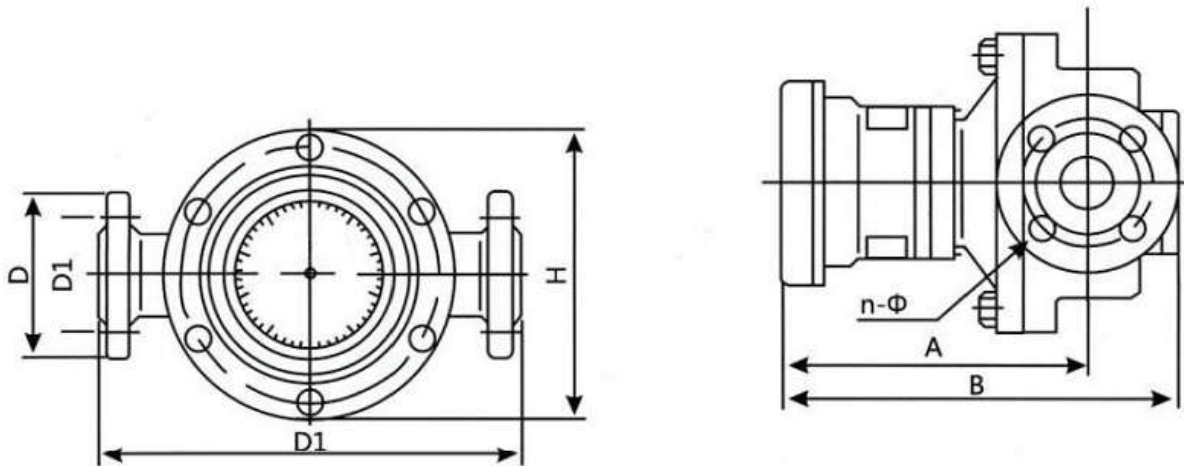
LPE Series Flow Meter

Model	LPE-1	LPE-1.5	LPE-2
Size	G1" Female	G1.5" Female	G2" Female
Min. Flow	20L/min	25L/min	30L/min
Max. Flow	200L/min	250L/min	300L/min
Accuracy	±0.5%		
Repeatability	≤0.03%		
Max. Viscosity	1000CPS		
Max. Pressure	3.4Mpa	1.8Mpa	1.8Mpa



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Installation Size



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