

IFTB Series –Turbin Type Digital Flowmeter

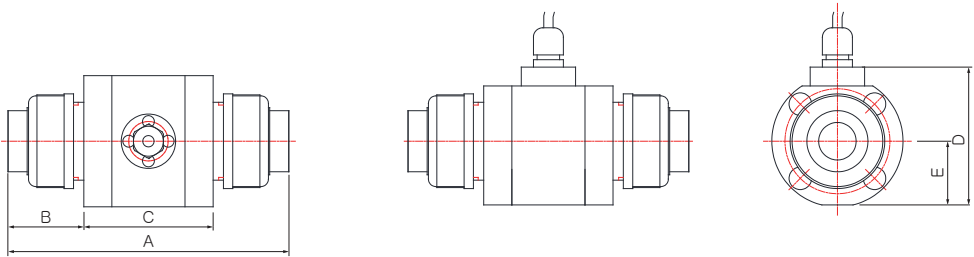
构造简单 拿取清点容易 可以计算瞬间流量和积算流量, 可以使用4~20mA 切点输出信号。
簡単な構造で取り扱い及び付随的な点検が容易で、瞬間流量及び積算流量を表示することができ、4-20mAや、接点出力信号を使うことができます。



[分离型]



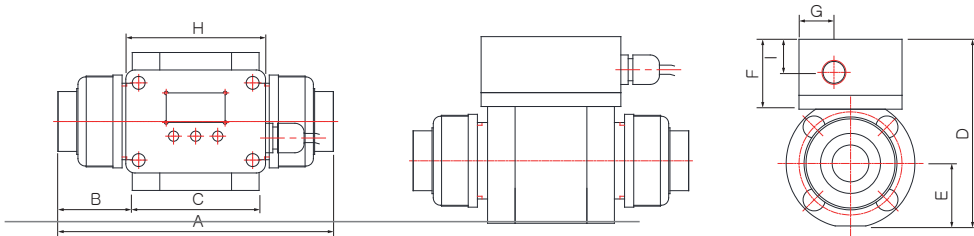
[一体型]



Specification	
測定范围(Measuring Range)(測定範囲)	Min. 10L/min Max. 500L/min (water 标准)
流量比率(Range Ability)(流体的比率)	10:1
精确度(Accuracy)(正精度)	±1% Full scale
最大压力(Max. Op. Press)(最大压力)	5kgf/cm ²
最大温度(Max. Op. Temp)(最大温度)	40℃ (PVC) / 90℃ (PTFE)
粘度(viscosity)(粘性)	< 20cP
流量范围(Used Fluid)(使用流体)	Chemicals, D.I-Water

Characteristics	
- PVC, PTFE, SUS316 等多样的材质	
- 优良的耐化学性	
- 瞬间流量, 积算流量标示	
- 4~20mA 节点 功率	
- 可测定广泛的流量	
- PVC, PTFE, SUS316などの多様な材質	
- 優秀な耐化学性	
- 瞬間流量、積算流量表示	
- 4~20mAの接点出力	
- 幅広い流量が測定できる	

Dimension(分离型)					
Size	A	B	C	D	E
15A	149.8	40.4	69	73.5	34
20A	149.8	40.4	69	73.5	34
25A	163	47	69	79	36.5
32A	210.8	60.9	89	103	51.5
40A	210.8	60.9	89	103	51.5
50A	255	83	89	121.5	60.5
65A	290	95.5	99	159	79



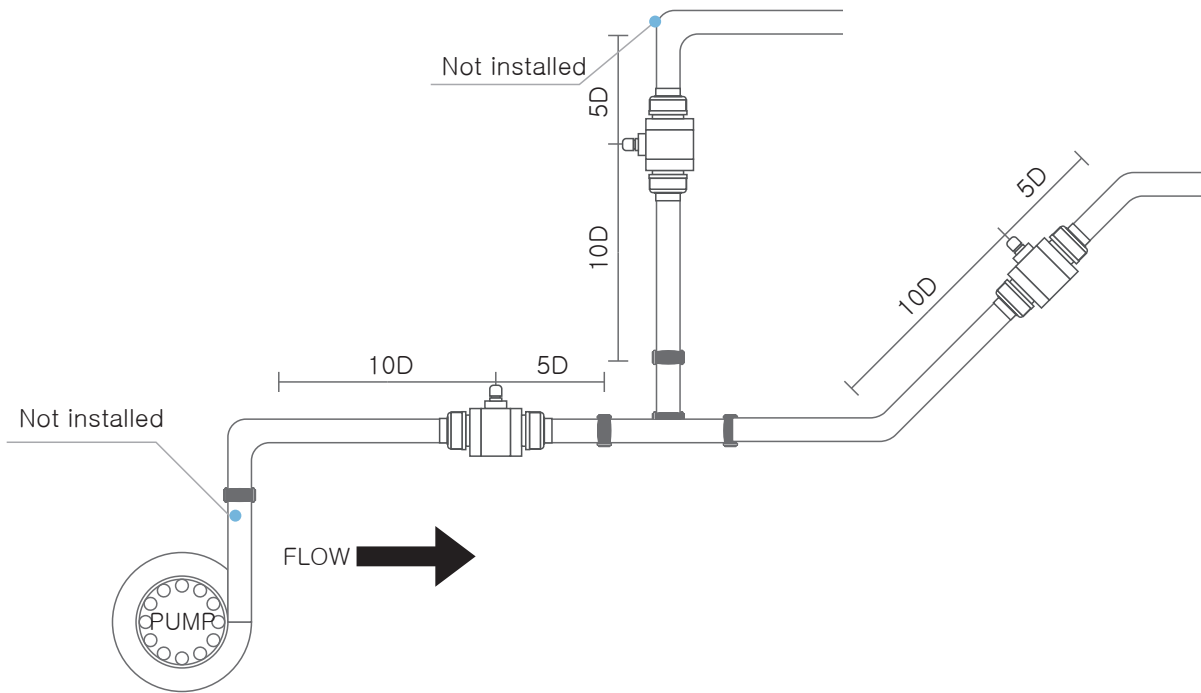
Dimensio(一体型)									
Size	A	B	C	D	E	F	G	H	I
15A	149.8	40.4	69	101.5	34	38	19	76	18
20A	149.8	40.4	69	101.5	34	38	19	76	18
25A	163	40.4	69	107	36.5	38	19	76	18
32A	210.8	60.9	89	131	51.5	38	19	76	18
40A	210.8	60.9	89	131	51.5	38	19	76	18
50A	245	78	89	149.5	60.5	38	19	76	18
65A	290	95.5	99	187	79	38	19	76	18

Model Selection									
IFTB - ①②③ - ④⑤ - ⑥⑦⑧⑨									
①Model	②Material	③Packing	④Connection	⑤Size	⑥Display	⑦Output	⑧Power	⑨통신	
1 (分离型)	P (PVC)	V (VITON)	U (Union)	15 (15A)	N (NONE)	1 (Ararm)	D (DC24V)	无记号(No Opction)	
无记号 (一体型)	F (PTFE)	F (FKM)	F (Female)	20 (20A)	S (顺시)	2 (40~20mA)		R (RS485)	
	S (SUS316)	Z (Special)	FL (Flange)	25 (25A)	E (顺시/적산)	3 (1~5VDC)			
			S (Special)	32 (32A)					
				40 (40A)					
				50 (50A)					
				65 (65A)					

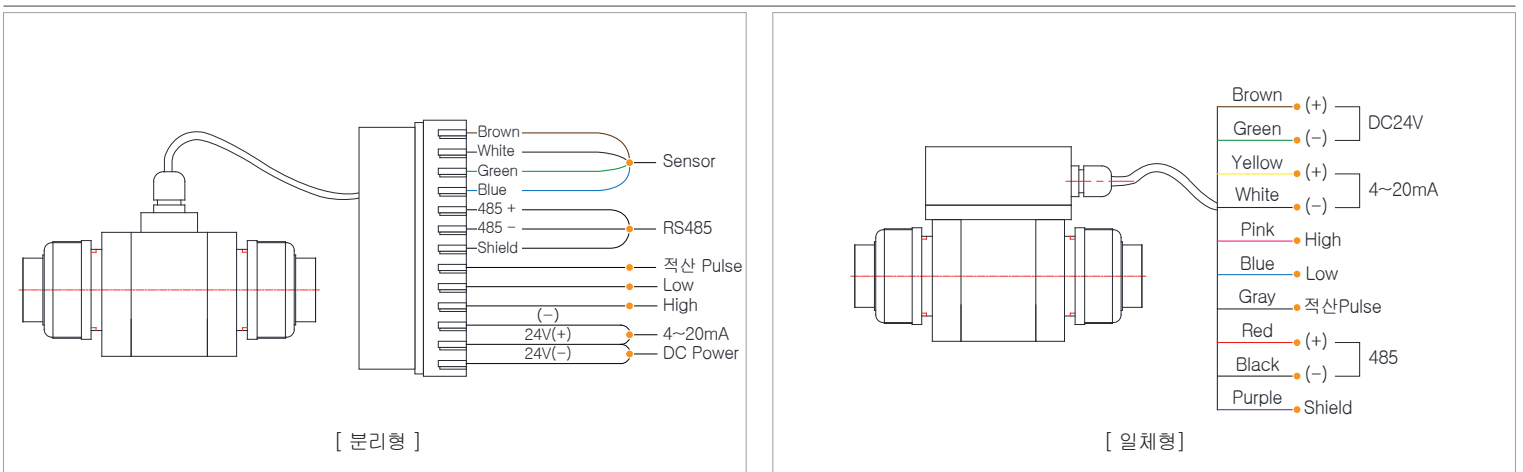
유량 Data

Size	流量范围	Size	流量范围
15A	3~30	32A	20~200
20A	5~50	40A	30~300
25A	10~100	50A	50~500

Sensor Installation



Method of Wire Connection



IFTBV Series – Flowmeter, Valve 一体型 Type

一体型Type, 构造简单 拿取消点容易 可以计算瞬间流量和积算流量, 可以使用4~20mA 切点输出信号.
一体型Type, 簡単な構造で取り扱い及び付随的な点検が容易で、瞬間流量及び積算流量を表示することができ、4~20mAや、接点出力信号を使うことができます。



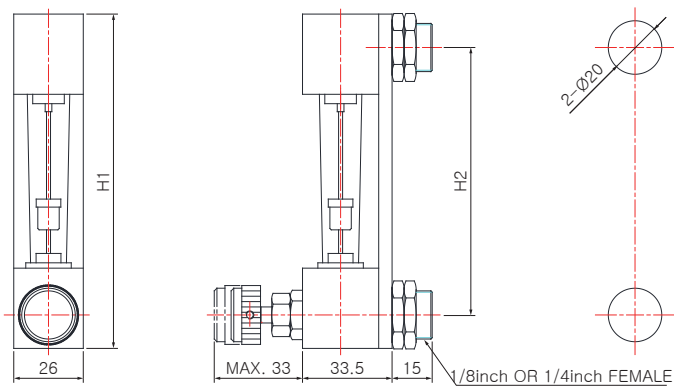
[流量计 + 阀门 一体型]

Specification		Characteristics	
測定范围(Measuring Range)(測定範囲)	Min. 10L/min Max. 500L/min (water 标准)	- PVC, PTFE, SUS316 等多样的材质 - 优良的耐化学性 - 瞬间流量, 积算流量标示 - 4~20mA 节点 功率 - 可测定广泛的流量 - PVC, PTFE, SUS316などの多様な材質 - 優秀な耐化学性 - 瞬間流量、積算流量表示 - 4~20mAの接点出力 - 幅広い流量が測定できる	
流量比率(Range Ability)(流体の比率)	10:1		
精确度(Accuracy)(正確度)	±3% Full scale		
最大压力(Max. Op. Press)(最大压力)	5kgf/cm ²		
最大温度(Max. Op. Temp)(最大温度)	40℃ (PVC) / 90℃ (PTFE)		
粘度(viscosity)(粘性)	< 20cP		
流量范围(Used Fluid)(使用流体)	Chemicals, D.I-Water		

Model Selection										IFTBV – ①② – ③④ – ⑤⑥⑦⑧ – ⑨⑩	
①Material	②Packing	③Connection	④Size	⑤Display	⑥Output	⑦Power	⑧통신	⑨Valve Type	⑩Valve Option		
P (PVC)	V (VITON)	U (Union)	15 (15A)	N (NONE)	1 (Ararm)	D (DC24V)	无记号 (No Opction)	A (Auto Valve)	无记号 (No Opction)		
F (PTFE)	F (FKM)	F (Female)	20 (20A)	S (순시)	2 (40~20mA)		R (RS485)	M (Manual Valve)	1 (Indicator)		
S (SUS316)	Z (Special)	FL (Flange)	25 (25A)	E (순시/적산)	3 (1~5VDC)			N (Needle Valve)	2 (Flow control)		
		S (Special)	*特殊配置 可以预定								

IF10/20 Series

接液部使用于SUS316材质，外形BADY处理了 AL Anodizing。 适合用于测试少流量 Liquid和气体的标准流量计



实际尺寸找销售部咨询。以上的尺寸会可变

Characteristics
- Model按全长长短范围内2种Model
- 可贴 Flow Alarm Sensor
- 按客户的要求，可制作 Flow Range
- 使用了Needle Valve 可调流量，全面可贴 Panel

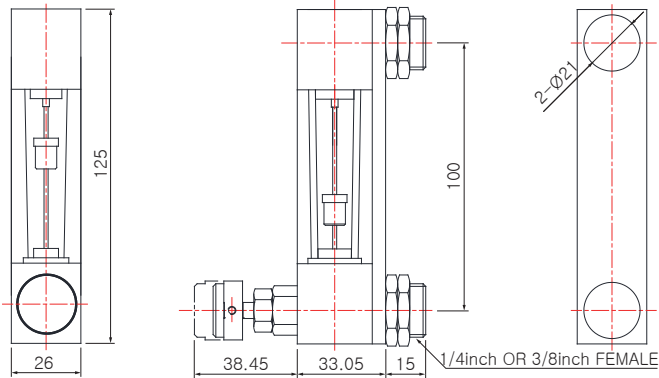
Dimension		
Model	H1	H2
IF10	125	100
IF20	160	135

Standard & Specification			
Measuring Range	Liquid and Gases		Remark
	Air	Min. 100ml/min	
		Max. 50L/min	
	Liquid	Min. 20ml/min	
		Max. 2L/min	
Range Ability	10:1		
Accuracy	±3% Full Scale		
Max. Op. Press	7kgf/cm²(0.7Mpa)		
Max. Op. Temp	70℃		
Material	Body	SUS316	Wetting parts
	Tapered tube	Pyrex glass	
	Packing	Viton	
	Support	Aluminum	
	Guide rod	SUS316	
	Cover	PC	
Connection Type	1/4inch PT Female		
Flow Direction	Bottom to Top		

Model Selection					
IF10/20 ①② - ③④ - ⑤⑥					
①Material	②Packing	③Connection type	④Connection size	⑤Needle Valve	⑥Alarm
S (SUS316)	V (VITON)	F (PT(RC) Female)	1 (1/8inch)	N (NONE)	O (NONE)
	E (EPDM)	N (NPT Female)	2 (1/4inch)	B (BOTTOM)	S (Optic Sensor)
	N (NBR)	L (LOK Type)	3 (3/8inch)	T (TOP)	
	Z (Special)	V (VCR Type)			

IF35 Series

接液部使用于SUS316材质的Liquid用，安装了流量监视用Alarm，可使用 Magentic sensor, Optic Sensor 的流量计。



Characteristics
- Water 标准, 可使用 Max. 7L/min
- 可贴Flow Alarm Sensor
- 按客户的要求, 可制作 Flow Range
- 使用了Needle Valve 可调流量, 全面可贴 Pane

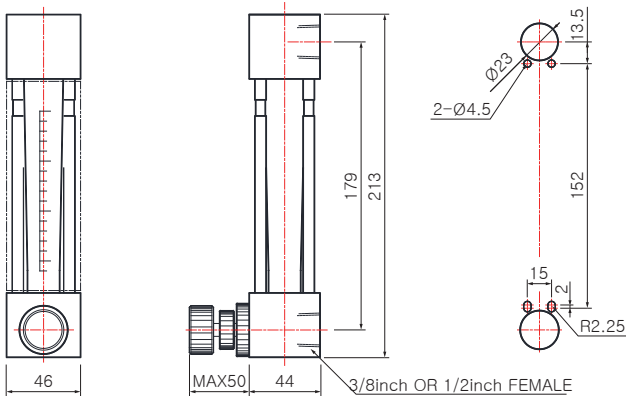
Dimension	
Model	
IF35	实际尺寸找销售部咨询。以上的尺寸会可变

Standard & Specification			
	Liquid	Remark	
Measuring Range	Min. 3L/min Max. 7L/min(Water 기준)	– Viscosity < 0.5cP – When selecting flow range, refer to standard flow rate table.	
Range Ability	10:1		
Accuracy	±5% Full Scale		
Max. Op. Press	7kgf/cm²(0.7Mpa)		
Max. Op. Temp	70℃		
Material	Body	SUS316	Wetting parts
	Tapered tube	Pyrex glass	
	Packing	Viton	
	Support	Aluminum	
	Guide rod	SUS316	
	Cover	Acryl	
Connection Type	3/8inch PT Female		
Flow Direction	Bottom to Top		

Model Selection					
IF35 ①② - ③④ - ⑤⑥					
①Material	②Packing	③Connection type	④Connection size	⑤Needle Valve	⑥Alarm
S (SUS316)	V (VITON)	F (PT(RC) Female)	2 (1/4inch)	N (NONE)	O (NONE)
	E (EPDM)	N (NPT Female)	3 (3/8inch)	B (BOTTOM)	S (Optic Sensor)
	N (NBR)	L (LOK Type)		T (TOP)	R (Reed Sensor)
	Z (Special)	V (VCR Type)			

IF40 Series

接液部的材质按流体的种类可使用 Teflon, PVC, SUS316, AL , 合适适用于少流量 Liquid 和各种 Chemical 及腐蚀性气体



Characteristics
– 按流体种类多样的 Body 材质
– 使用Needle Valve, 可调整流量
– 按客户的要求, 可制作 Flow Range
– 可贴Flow Alarm Sensor, 前后面可贴 Panel

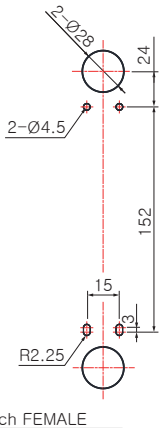
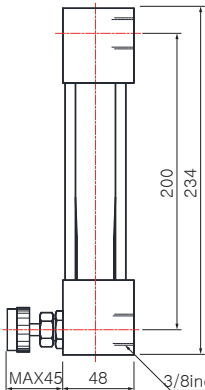
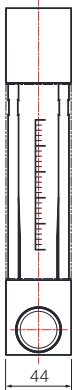
Dimension	
Model	
IF40	实际尺寸找销售部咨询。以上的尺寸会可变

Standard & Specification			
Measuring Range	Liquid and Gases		Remark
	Air	Min. 50L/min	
		Max. 200L/min	
	Liquid	Min. 3L/min	
		Max. 5L/min	
Range Ability	10:1		
Accuracy	±3% Full Scale		
Max. Op. Press	7kgf/cm²(0.7Mpa)		
Max. Op. Temp	50℃(PVC)		
Material	Body	PVC	Wetting parts
	Tapered tube	Pyrex glass	
	Packing	Viton	
	Support	SUS316	
	Guide rod	SUS316	
	Cover	Acryl	
Connection Type	3/8inch PT Female		
Flow Direction	Bottom to Top		

Model Selection					
IF40 ①② – ③④ – ⑤⑥					
①Material	②Packing	③Connection type	④Connection size	⑤Needle Valve	⑥Alarm
P (PVC)	V (VITON)	F (PT(RC) Female)	3 (3/8inch)	N (NONE)	O (NONE)
T (PTFE)	E (EPDM)	N (NPT Female)	4 (1/2inch)	B (BOTTOM)	S (Optic Sensor)
S (SUS316)	N (NBR)	V (VCR Type)		T (TOP)	
	Z (Special)	S (Special)			

IF45 Series

接液部的材质 SUS316和 Aluminum 都可以使用, 简易构造, 可使用 Liquid和 GAS的中流量计.



Characteristics
- 多样的 Connection 方向和排管设计容易
- 使用Needle Valve, 可调整流量
- 按客户的要求, 可制作 Flow Range
- 可贴Flow Alarm Sensor, 前后面可贴 Panel

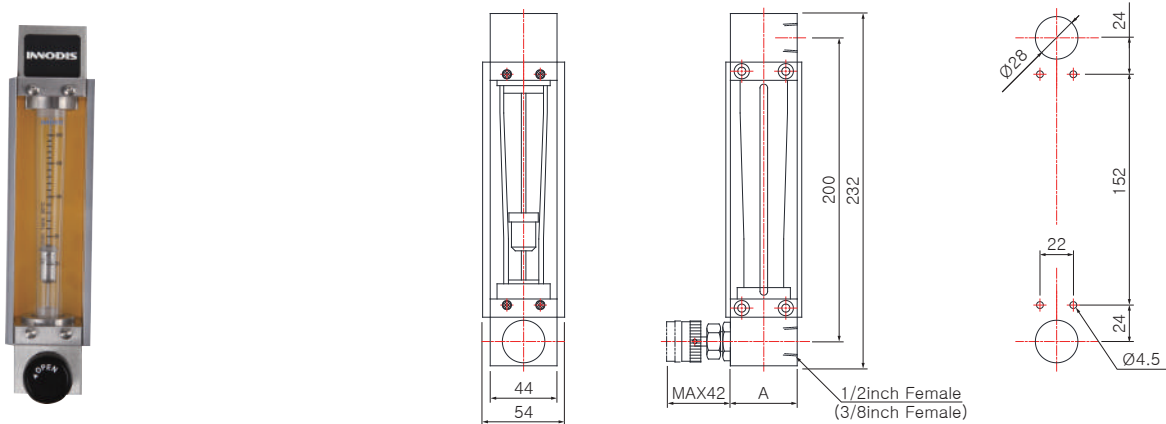
Dimension	
Model	
IF45	实际尺寸找销售部咨询。以上的尺寸会可变

Standard & Specification			
Measuring Range	Liquid and Gases		Remark
	Air	Min. 50L/min	
		Max. 600L/min	
	Liquid	Min. 10L/min	
		Max. 20L/min	
Range Ability	10:1		
Accuracy	±3% Full Scale		
Max. Op. Press	7kgf/cm²(0.7Mpa)		
Max. Op. Temp	70℃		
Material	Body	SUS316	Wetting parts
	Tapered tube	Pyrex glass	
	Packing	Viton	
	Support	SUS316	Cr Plating
	Guide rod	SUS316	
	Cover	Acryl	
Connection Type	3/8inch PT Female		
Flow Direction	Bottom to Top		

Model Selection					
IF45 ①② - ③④ - ⑤⑥					
①Material	②Packing	③Connection type	④Connection size	⑤Needle Valve	⑥Alarm
S (SUS316)	V (VITON)	F (PT(RC) Female)	3 (3/8inch)	N (NONE)	O (NONE)
	E (EPDM)	N (NPT Female)	4 (1/2inch)	B (BOTTOM)	S (Optic Sensor)
	N (NBR)	L (LOK Type)		T (TOP)	
	Z (Special)	V (VCR Type)			

IF50 Series

接液部的材质 SUS316和 Aluminum 都可以使用, 简易构造, 可使用 Liquid和 GAS的中流量计.



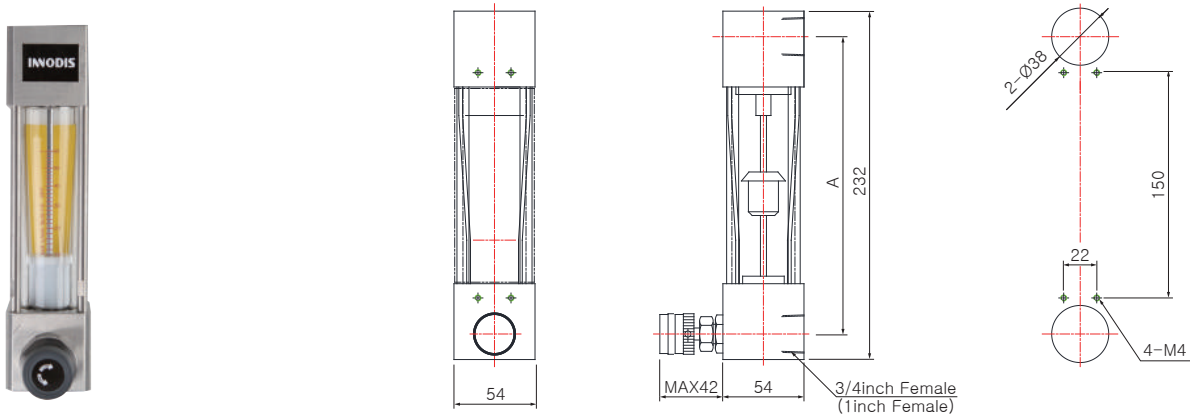
Characteristics	Dimension						
- 可制作Aluminum Body - 使用Needle Valve, 可调整流量 - 按客户的要求, 可制作 Flow Range - 可贴Flow Alarm Sensor, 前后面可贴 Panel	<table><tr><th>Model</th><th>A</th></tr><tr><td>3/8inch</td><td>44</td></tr><tr><td>1/2inch</td><td>48</td></tr></table>	Model	A	3/8inch	44	1/2inch	48
Model	A						
3/8inch	44						
1/2inch	48						

Standard & Specification			
Measuring Range	Liquid and Gases		Remark
	Air	Min. 50L/min	
		Max. 600L/min	
	Liquid	Min. 5L/min	
		Max. 20L/min	
Range Ability	10:1		
Accuracy	±3% Full Scale		
Max. Op. Press	7kgf/cm²(0.7Mpa)		
Max. Op. Temp	70℃		
Material	Body	SUS316	Wetting parts Cr Plating
	Tapered tube	Pyrex glass	
	Packing	Viton	
	Support	Aluminum	
	Guide rod	SUS316	
	Cover	Acryl	
Connection Type	1/2inch PT Female		
Flow Direction	Bottom to Top		

Model Selection					
IF50 ①② - ③④ - ⑤⑥					
①Material	②Packing	③Connection type	④Connection size	⑤Needle Valve	⑥Alarm
S (SUS316)	V (VITON)	F (PT(RC) Female)	3 (3/8inch)	N (NONE)	O (NONE)
	E (EPDM)	N (NPT Female)	4 (1/2inch)	B (BOTTOM)	S (Optic Sensor)
	N (NBR)	L (LOK Type)		T (TOP)	
	Z (Special)	V (VCR Type)			

IF60 Series

接液部的材质 SUS316和 Aluminum 都可以使用, 简易构造, 可使用 Liquid和 GAS的中流量计.



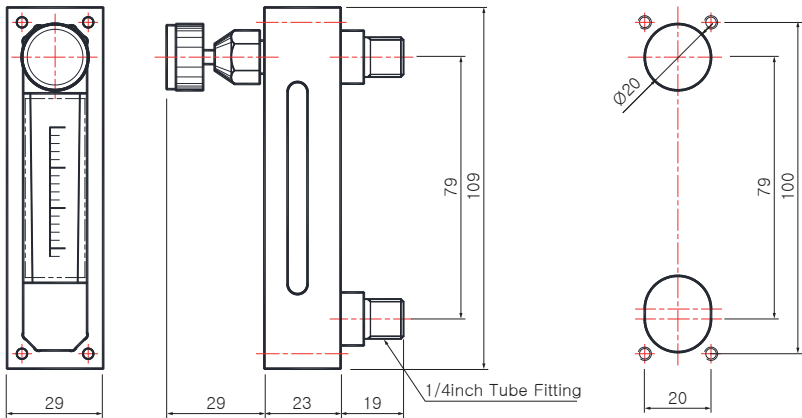
Characteristics	Dimension						
- 多样的 Connection 方向 - 使用Needle Valve, 可调整流量 - 按客户的要求, 可制作 Flow Range - 可贴Flow Alarm Sensor, 前后面可贴 Panel	<table><tr><th>Model</th><th>A</th></tr><tr><td>3/4inch</td><td>198</td></tr><tr><td>1inch</td><td>192</td></tr></table>	Model	A	3/4inch	198	1inch	192
Model	A						
3/4inch	198						
1inch	192						

Standard & Specification			
	Liquid and Gases		Remark
Measuring Range	Air	Min. 700L/min	- Air at 20℃ 1atm - When selecting flow range, refer to standard flow rate table.
		Max. 2000L/min	
	Liquid	Min. 50L/min	
		Max. 100L/min	
Range Ability	10:1		
Accuracy	±3% Full Scale		
Max. Op. Press	7kgf/cm²(0.7Mpa)		
Max. Op. Temp	70℃		
Material	Body	SUS316	Wetting parts
	Tapered tube	Pyrex glass	
	Packing	Viton	
	Support	SUS316	Cr Plating
	Guide rod	SUS316	
	Cover	Acryl	
Connection Type	3/4inch PT Female		
Flow Direction	Bottom to Top		

Model Selection					
IF60 ①② - ③④ - ⑤⑥					
①Material	②Packing	③Connection type	④Connection size	⑤Needle Valve	⑥Alarm
S (SUS316)	V (VITON)	F (PT(RC) Female)	5 (3/4inch)	N (NONE)	O (NONE)
	E (EPDM)	N (NPT Female)	6 (1inch)	B (BOTTOM)	S (Optic Sensor)
	N (NBR)	L (LOK Type)		T (TOP)	
	Z (Special)	V (VCR Type)			

IF70 Series

接液部及 Packing 使用了 Teflon 材质，优秀的耐化学型和可测试精密的少流量的流量计。



Characteristics
- 优秀的耐化学型，合适使用腐蚀性的 GAS及 Chemical
- 使用Needle Valve，可调整流量
- 按客户的要求，可制作 Flow Range
- 可贴Flow Alarm Sensor
- PFA Tube 可连接 Connection

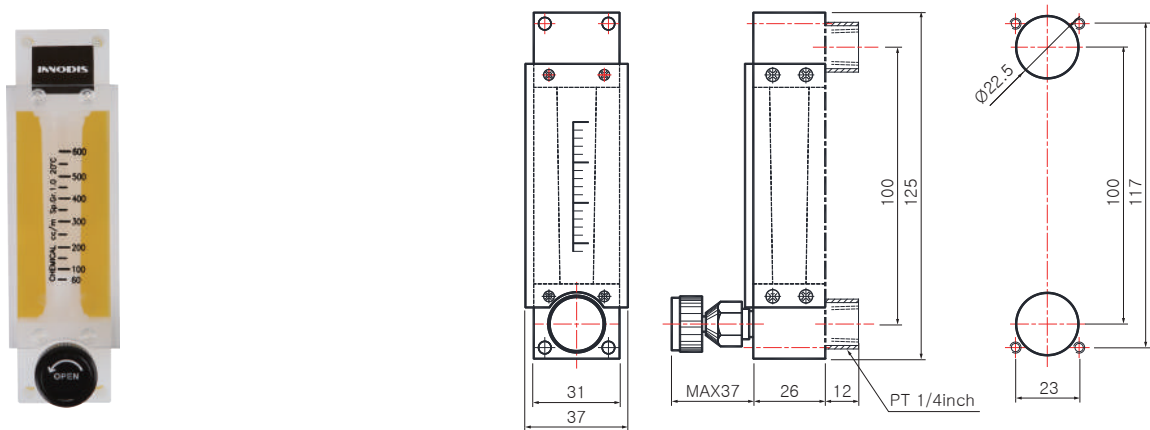
Dimension	
Model	
IF70	实际尺寸找销售部咨询。以上的尺寸会可变

Standard & Specification			
Measuring Range	Liquid and Gases		Remark
	Air	Min. 100ml/min	
		Max. 50L/min	
	Liquid	Min. 20ml/min	
		Max. 2L/min	
Range Ability	10:1		
Accuracy	±3% Full Scale		
Max. Op. Press	7kgf/cm²(0.7Mpa)		
Max. Op. Temp	70℃		
Material	Body	PFA	Wetting parts
	Tapered tube	Pyrex glass	
	Packing	Teflon	
	Support	Acetal	
	Cover	Acryl	
Connection Type	1/4inch PT Female		
Flow Direction	Bottom to Top		

Model Selection					
IF70 ①② - ③④ - ⑤⑥					
①Material	②Packing	③Connection type	④Connection size	⑤Needle Valve	⑥Alarm
F (PFA)	F (PTFE)	F (PT Female)	1 (1/8inch)	N (NONE)	O (NONE)
		T (Tube Fitting)	2 (1/4inch)	B (BOTTOM)	S (Optic Sensor)
			3 (3/8inch)	T (TOP)	
			A (4mm)		
			B (6mm)		
			C (8mm)		

IF75 Series

接液部材质 All PFA、优秀的耐化学型及可适用于所有种类的 Chemical 和需要耐化学型的地方。



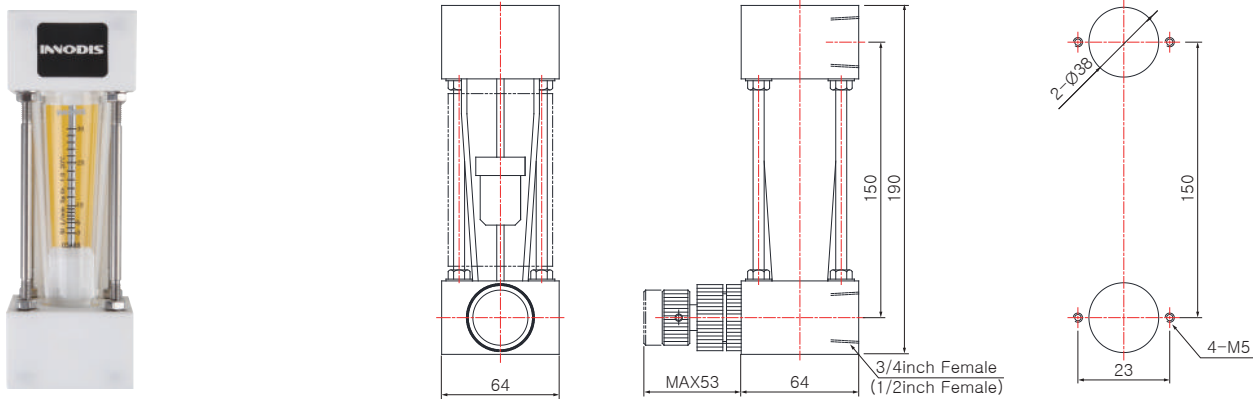
Characteristics	Dimension	
- PFA Welding 构造，可使用各种 Chemical - Needle Valve 可调整流量 - PFA Tube 可连接 Connection - 按客户的要求，可制作 Flow Range - 可贴Flow Alarm Sensor	Model	
	IF75	实际尺寸找销售部咨询。以上的尺寸会可变

Standard & Specification			
	Liquid and Gases		Remark
Measuring Range	Air	Min. 500ml/min	- Air at 20℃ 1atm - When selecting flow range, refer to standard flow rate table.
		Max. 50L/min	
	Liquid	Min. 20ml/min	
		Max. 2L/min	
Range Ability	10:1		
Accuracy	±3% Full Scale		
Max. Op. Press	3kgf/cm²		
Max. Op. Temp	70℃		
Material	Body	PFA	Wetting parts
	Tapered tube	PFA	
	Packing	Teflon	
	Support	Acetal	
	Cover	Acryl	
Connection Type	1/4inch PT Female		
Flow Direction	Bottom to Top		

Model Selection					
IF75 ①② - ③④ - ⑤⑥					
①Material	②Packing	③Connection type	④Connection size	⑤Needle Valve	⑥Alarm
F (PFA)	F (PTFE)	F (PT Female)	1 (1/8inch)	N (NONE)	O (NONE)
		T (Tube Fitting)	2 (1/4inch)	B (BOTTOM)	S (Optic Sensor)
			3 (3/8inch)	T (TOP)	
			B (6mm)		
			C (8mm)		

IF80 Series

接液部使用了 Teflon 及 PVC 材质, Chemical 和 在DIW可使用的大中流量流量计.



Characteristics
- 适用于各种 Chemical的耐化学型
- Needle Valve 可调整流量
- 多样的 Connection 方向
- 按客户的需求 可制作Flow Range
- 可贴Flow Alarm Sensor

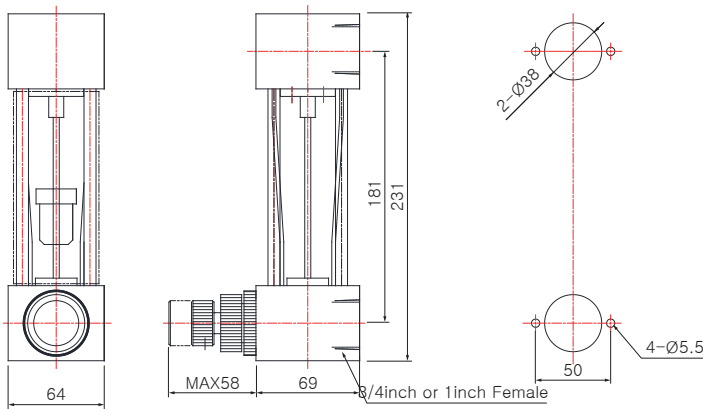
Dimension	
Model	
IF80	实际尺寸找销售部咨询。以上的尺寸会可变

Standard & Specification				
	Liquid and Gases	Remark		
Measuring Range	Min. 10L/min Max. 50L/min(Water标准)	– When selection flow range, refer to standard flow rate table – Viscosity < 0.5cP		
Range Ability	10:1			
Accuracy	±3% Full Scale			
Max. Op. Press	5kgf/cm²			
Max. Op. Temp	50℃ (PVC)			
Material	Body	PVC	Wetting parts	
	Tapered tube	Pyrex glass		
	Packing	Viton		
	Support	SUS316		
	Guide rod	SUS316 + Teflon Cotting		Cr Plating
	Cover	Acryl		
Connection Type	1/2inch PT Female			
Flow Direction	Bottom to Top			

Model Selection					
IF80 ①② - ③④ - ⑤⑥					
①Material	②Packing	③Connection type	④Connection size	⑤Needle Valve	⑥Alarm
P (PVC)	V (VITON)	F (PT(RC) Female)	3 (3/8inch)	N (NONE)	O (NONE)
T (PTFE)	E (EPDM)	N (NPT Female)	4 (1/2inch)	B (BOTTOM)	S (Optic Sensor)
	N (NBR)		5 (3/4inch)	T (TOP)	
	Z (Special)				

IF90 Series

接液部使用了 Teflon材质, 可适用于Chemical 的大流量流量计.



Characteristics
- 适用于各种 Chemical的耐化学型
- Needle Valve 可调整流量
- 多样的 Connection 方向
- 按客户的需求 可制作Flow Range
- 可贴Flow Alarm Sensor

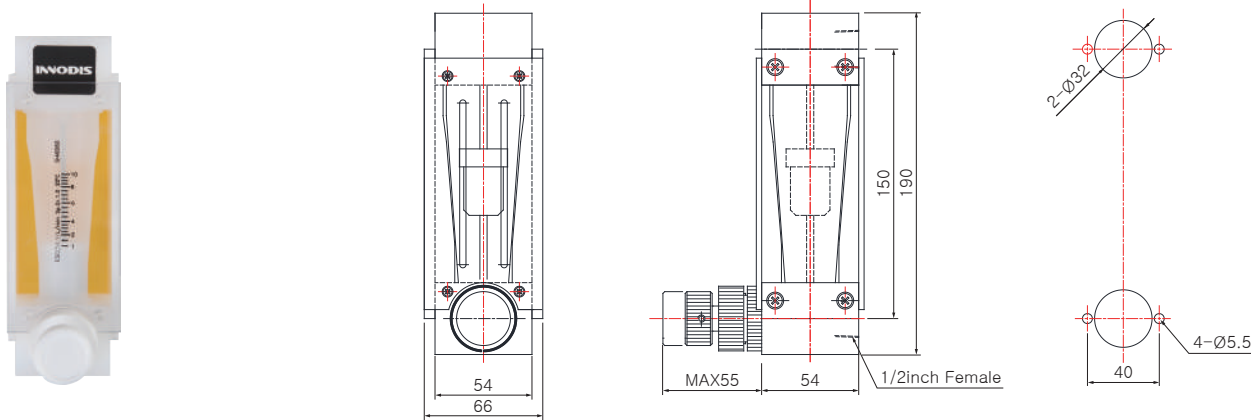
Dimension	
Model	
IF95	实际尺寸找销售部咨询。以上的尺寸会可变

Standard & Specification		
	Liquid and Gases	Remark
Measuring Range	Min. 50L/min Max. 100L/min(Water 标准)	- When selection flow range, refer to standard flow rate table. - Viscosity < 0.5cP
Range Ability	10:1	
Accuracy	±3% Full Scale	
Max. Op. Press	5kgf/cm²	
Max. Op. Temp	50℃ (PVC)	
Material	Body	PVC
	Tapered tube	Pyrex glass
	Packing	Viton
	Support	SUS316
	Guide rod	SUS316 + Teflon Cotting
	Cover	Acryl
Connection Type	1inch PT Female	
Flow Direction	Bottom to Top	

Model Selection					
IF90 ①② - ③④ - ⑤⑥					
①Material	②Packing	③Connection type	④Connection size	⑤Needle Valve	⑥Alarm
P (PVC)	V (VITON)	F (PT(RC) Female)	5 (3/4inch)	N (NONE)	O (NONE)
T (PTFE)	E (EPDM)	N (NPT Female)	6 (1inch)	B (BOTTOM)	S (Optic Sensor)
	N (NBR)			T (TOP)	
	Z (Special)				

IF95 Series

接液部材质 All PFA、优秀的耐化学型及可适用于所有种类的 Chemical 和需要耐化学型的地方的大流量流量计。



Characteristics	Dimension				
- PFA Welding 构造, 可使用各种 Chemical - Needle Valve 可调整流量 - 多样的Connection 方向 - 按客户的要求, 可制作 Flow Range - 可贴Flow Alarm Sensor	<table><tr><th>Model</th><th></th></tr><tr><td>IF95</td><td>实际尺寸找销售部咨询。以上的尺寸会可变</td></tr></table>	Model		IF95	实际尺寸找销售部咨询。以上的尺寸会可变
Model					
IF95	实际尺寸找销售部咨询。以上的尺寸会可变				

Standard & Specification		
	Liquid and Gases	Remark
Measuring Range	Min. 50L/min Max. 100L/min(Water 标准)	- When selection flow range, refer to standard flow rate table - Viscosity < 0.5cP
Range Ability	10:1	
Accuracy	±3% Full Scale	
Max. Op. Press	3kgf/cm²	
Max. Op. Temp	MAX 70℃	
Material	Body	PFA
	Tapered tube	PFA
	Oring	Teflon
	Guide rod	SUS316 + Teflon
	Cover	Acryl
Connection Type	1inch PT Female	
Flow Direction	Bottom to Top	

Model Selection					
IF95 ①② - ③④ - ⑤⑥					
①Material	②Packing	③Connection type	④Connection size	⑤Needle Valve	⑥Alarm
F (PFA)	F (PTFE)	F (PT(RC) Female)	5 (3/4inch)	N (NONE)	O (NONE)
		T (Tube Fitting)	6 (1inch)	B (BOTTOM)	S (Optic Sensor)
				T (TOP)	