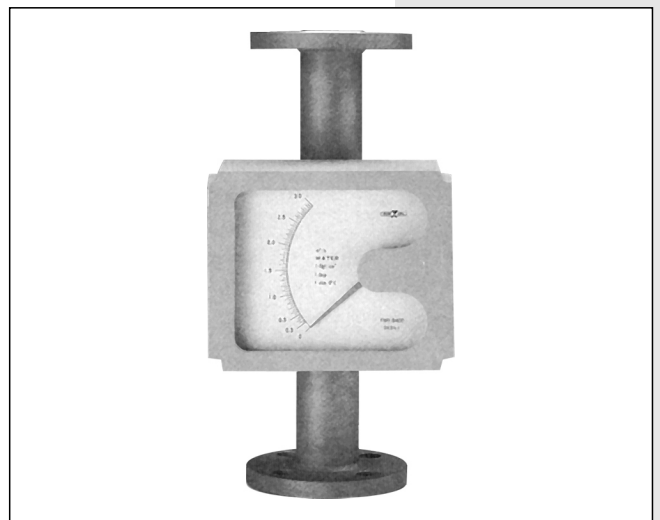


METAL TUBE COMPACT FLOWMETER



금속관 면적식 유량계

Flow Cell

■ 개 요

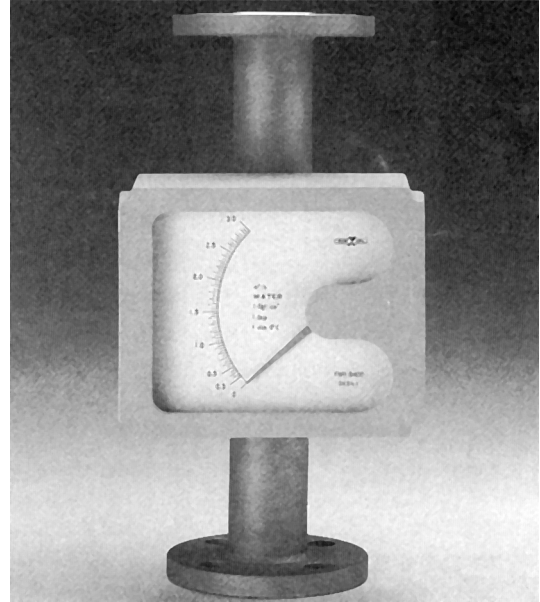
FMV-9400 시리즈는 유량계측 분야에서 한국 후로 셀의 오랜 경험을 기초로 개발된 금속 튜브 유량계입니다.

고정도의 현장 지시계, 아날로그 신호출력, 점점출력, 적산지시형을 필요에 따라 선택할 수 있습니다. 표준금속 재료로 구성되어 있어 부식성이 강한 대부분의 모든 유체에 적용할 수 있습니다.

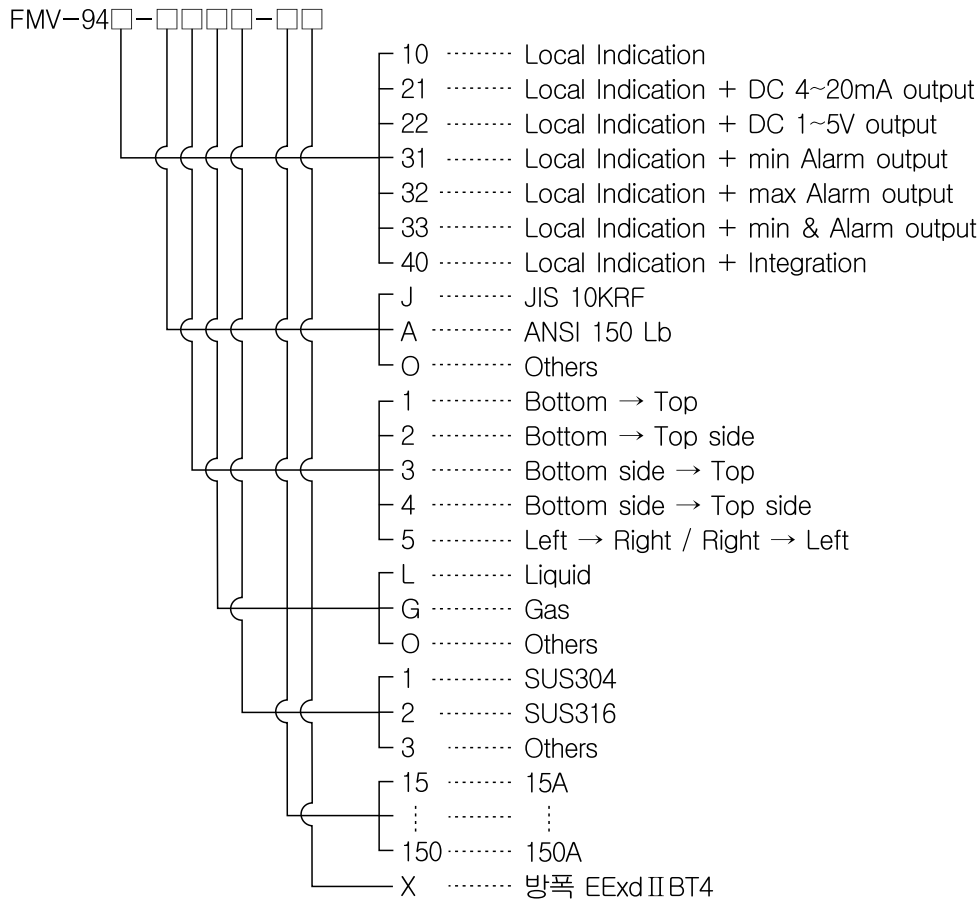
FMV-9400은 다양한 산업분야의 액체는 물론 가스나 증기의 측정에도 사용됩니다.

■ 특 징

- 모든 가능한 요구사항에 적용될 수 있다.
- 구조가 간단하고 측정범위가 넓다.
- 재질 선택이 다양하다.
- 모든 배관라인에 폭넓게 선택할 수 있다.
- 깨끗하고 미려한 모델이다.
- 고정도의 실현



■ 형식 선정



FMV 9400 Series

표준 사양

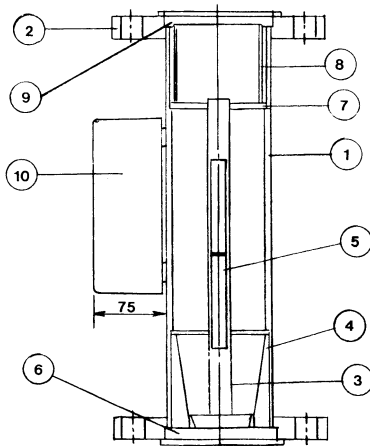
Meter Size	Standard Option	15mm(1/2B) ~ 80mm(3B) above 150mm(6B)
Material	Standard Option	304SS, 316SS Others metal
Connection	Standard Option	Flange form JIS 10K RF ANSI, DIN, SCREW FORM etc.
Flow Rate	10:1	
Pressure Range	Standard Option	10kgf/cm ² G(ANSI 150 Lb) above 20kgf/cm ² G(300 Lb)
Temperature Range	Fluid Temp Ambient Temp	-10 ~ 150°C(14°F ~ 302°F) -10 ~ 60°C(14°F ~ 140°F)
Accuracy	Liquid Gas	±1.5% F.S ±2.5% F.S
Painting	Silver Hammaton Paint	

유량 범위

Size	Fluid	Flow Range		
		Water standard Flow(m ³ /h)	Liquid Flow(m ³ /h)	Gas Flow(Nm ³ /h)*
15A		0.1 ~ 1.0	0.03 ~ 0.3 / 0.15 ~ 1.5	0.3 ~ 3.0 / 2.0 ~ 20
20A		0.15 ~ 1.5	0.03 ~ 0.3 / 0.2 ~ 2.0	0.3 ~ 3.0 / 3.0 ~ 30
25A		0.35 ~ 3.5	0.15 ~ 1.5 / 0.5 ~ 5.0	1.5 ~ 15 / 6.0 ~ 60
32A		0.6 ~ 6.0	0.3 ~ 3.0 / 0.7 ~ 7.0	3.0 ~ 30 / 10 ~ 100
40A		1.0 ~ 10.0	0.4 ~ 4.0 / 1.5 ~ 15	4.5 ~ 45 / 15 ~ 150
50A		1.5 ~ 15.0	1.0 ~ 10 / 2.0 ~ 20	5.0 ~ 50 / 20 ~ 200
65A		2.5 ~ 25.0	1.5 ~ 15 / 3.0 ~ 30	9.0 ~ 90 / 40 ~ 400
80A		4.0 ~ 40.0	2.0 ~ 20 / 5.0 ~ 50	15 ~ 150 / 70 ~ 700
100A		6.0 ~ 60.0	5.0 ~ 50 / 7.0 ~ 70	20 ~ 200 / 100 ~ 1000
125A		10.0 ~ 100.0	4.0 ~ 40 / 12.0 ~ 120	40 ~ 400 / 200 ~ 2000
150A		12.0 ~ 120.0	6.0 ~ 60 / 15.0 ~ 150	60 ~ 600 / 300 ~ 3000

* : AIR 20°C, 1atm 상당의 경우로, 압력 Pkgf/cm²G일 경우는 이 표의 값에 $\sqrt{P+1}$ 을 곱해주십시오.

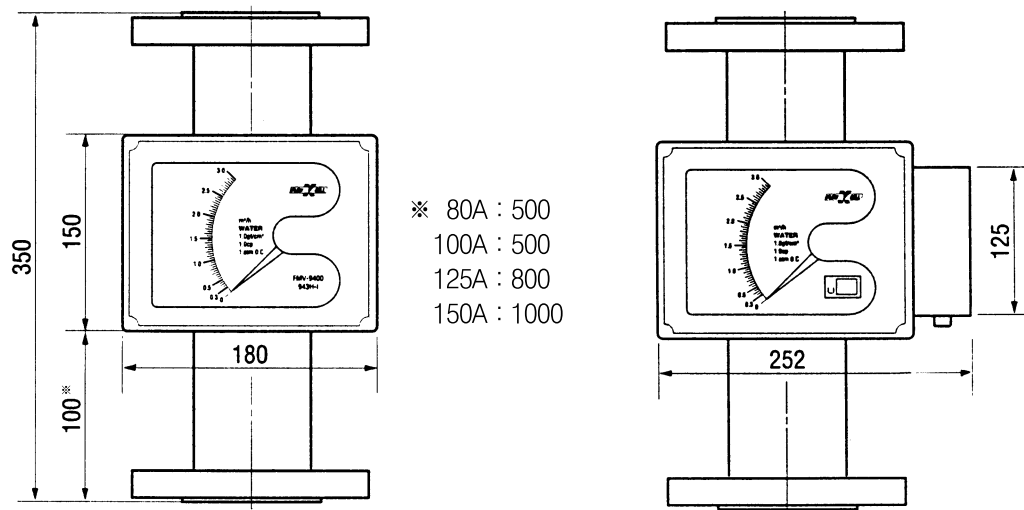
재 질



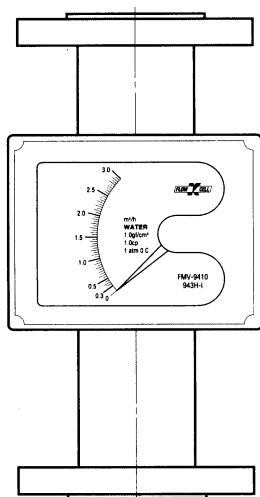
No.	Parts	Material	
		1	2
1	Body	SUS304	SUS316
2	Flange	SUS304	SUS316
3	Float	SUS304	SUS316
4	Taper tube	SUS304	SUS316
5	Magnet	ALNICO	ALNICO
6	Lower stopper	SUS304	SUS316
7	Guide	SUS304	SUS316
8	Distance collar	SUS304	SUS316
9	Upper stopper	SUS304	SUS316
10	Cover	ADC12	ADC12

FMV 9400 Series

■ 규격

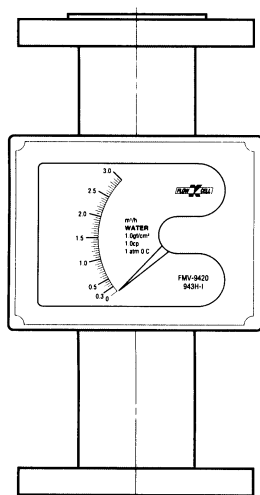


◆ FMV-9410 SERIES LOCAL INDICATOR



Indicates flow rate by pointer and scale plate

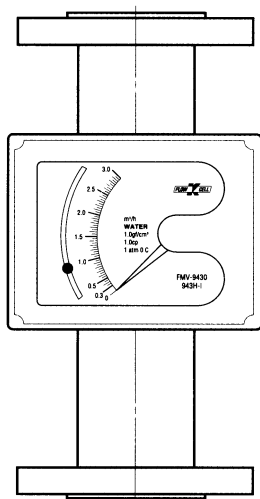
◆ FMV-9420 SERIES LOCAL INDICATOR WITH ELECTRIC TRANSMITTER



Power Supply : DC 24V
Output : DC 4~20mA
Wiring : 2 Wire System
Cable Entry
Standard : PG 13.5 Cable gland with frame proof gasket
Output Accuracy : $\pm 1.0\%$ F.S
Ambient Temp. : $-10 \sim 60^{\circ}\text{C}$

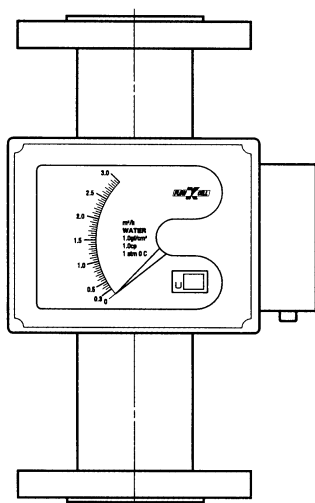
FMV 9400 Series

◆ FMV-9430 SERIES LOCAL INDICATOR WITH ALARM



Alarm Point	: 1 point high or low alarm 2 point low & high alarm
Switching Type	: Proximate sensor
Power	: 110/220V AC
Rating	: Max. 250V AC 1A or Max. 250V AC 10A
Cable Entry	: PG 13.5 cable with frame proof gasket
Standard	: -10 ~ 60°C
Ambient Temp.	

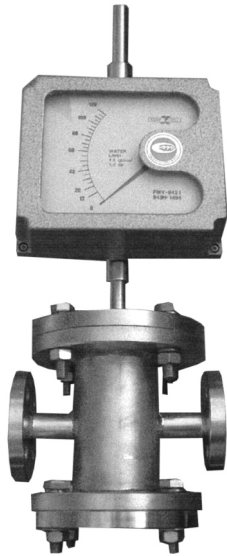
◆ FMV-9440 SERIES LOCAL INDICATOR WITH PULSE TRANSMITTER



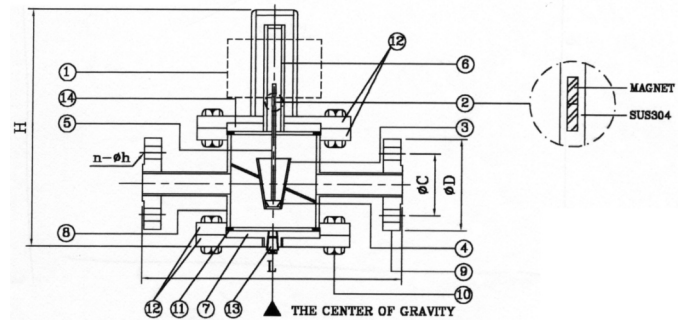
Integration	: 6 digit LCD display
Pulse Output	: Open collector output 12V DC pulse output
Power Supply	: AC 110V / 220V 60Hz
Cable Entry	: PG 13.5 cable gland with frame proof gasket
Standard	
Ambient Temp.	: -10 ~ 60°C

FMV 9400 Series

■ 수평배관용



■ 표준 사양



■ 규 격

Size	L	H
15A	150	535
20A	180	535
25A	200	535
32A	250	550
40A	250	550
50A	280	600
65A	350	600
80A	400	650
100A	500	700
125A	550	800
150A	600	900

■ 재 질

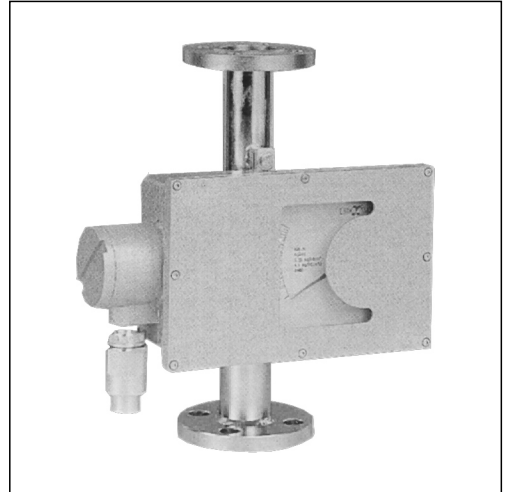
No.	Parts	Material
1	Cover	ADC12
2	Magnet	ALNICO, Inserted in SUS Pipe
3	Taper Tube	SUS304
4	Float	SUS304
5	Rod	SUS304
6	Guide Pipe	SUS304
7	Drain Plate	SUS304
8	Body	SUS304
9	Connection Flange	SUS304
10	Bolt & Nut	SUS304
11	Packing	NBR
12	Body Flange	SUS304
13	Plug	SUS304
14	No Mag Tube Plate	SUS304

■ 개 요

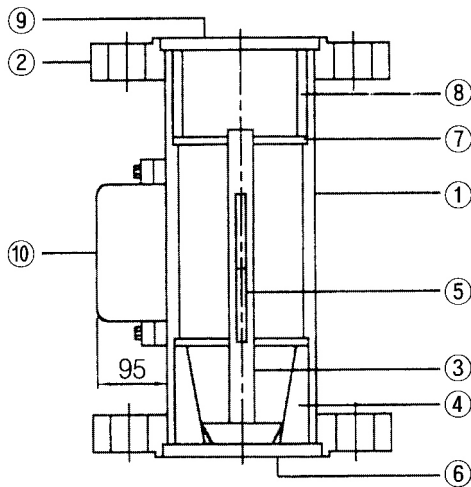
FMV-9400 시리즈는 한국후로셀의 기술력으로 우리나라 최초로 내장형 방폭형으로 개발한 유량계입니다. 고정도의 아날로그 신호출력, 적산펄스의 출력으로 필요에 따라 선택할 수 있습니다. 화학공장이나 석유화학 등 폭발의 위험이 있는 제조공장에서 사용됩니다.

■ 특 징

- 내장형 방폭형이어서 구조가 간편하다.
- 재질 선택이 다양하다.
- 고정도의 실현

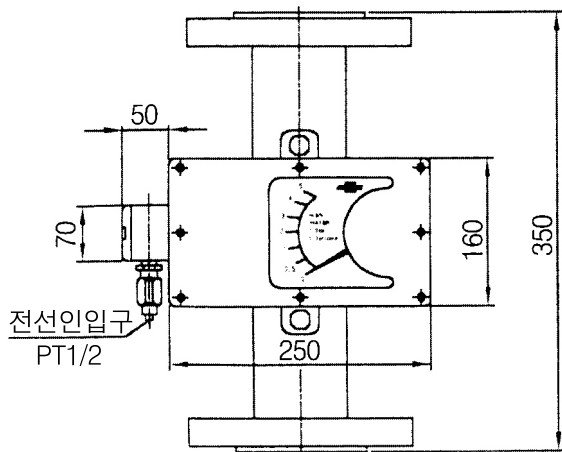


■ 재 질



No.	Parts	Material	
		1	2
1	Body	SUS304	SUS316
2	Flange	SUS304	SUS316
3	Float	SUS304	SUS316
4	Taper tube	SUS304	SUS316
5	Magnet	ALNICO	ALNICO
6	Lower stopper	SUS304	SUS316
7	Guide	SUS304	SUS316
8	Distance collar	SUS304	SUS316
9	Upper stopper	SUS304	SUS316
10	Cover	ADC12	ADC12

■ 규 격



Power Supply : DC 24V
 Output : DC 4~20mA
 Wiring : 2 Wire System
 Cable Entry : Explosion Proof PT¹/₂ Cable Grand
 Output Accuracy : ±1.0% F.S
 Ambient Temp. : -10 ~ 40°C
 Explosion Proof : Ex dII BT4

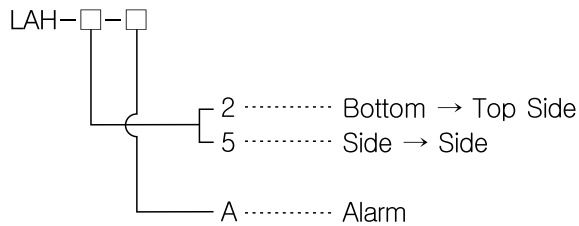
Metal Tube Type Indicator

MODEL : LAH-2 Series

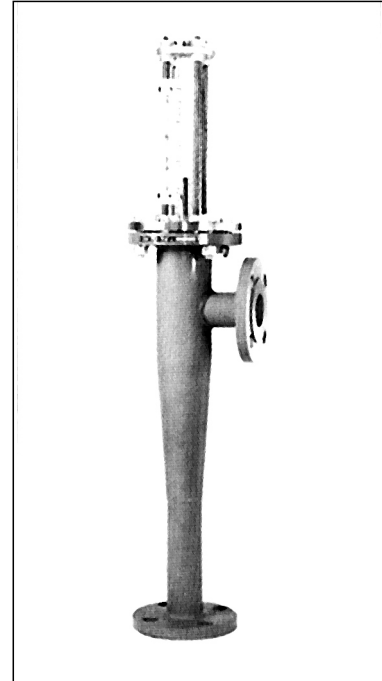
■ 개 요

금속 테이퍼관을 사용한 가장 일반적인 형식입니다.

■ 형식 및 사양



- Meter Size : 1/2" ~ 6"
- Material : SUS404
- Temp. : Max. 120℃
- Accuracy : ±2% (F.S)



LAH-2

■ 유량 범위

LAH-2

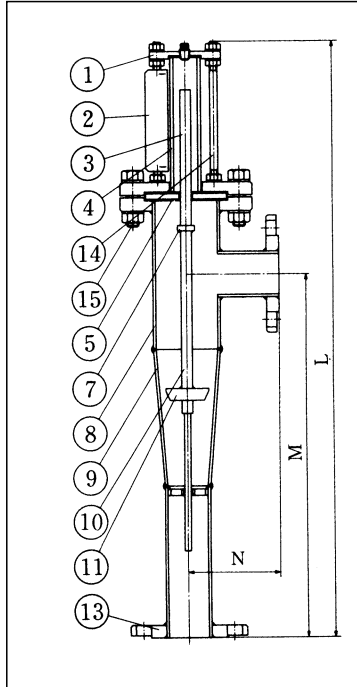
Size	Pressure Loss mmAq		Weight kgf	
			Body	
	Liquid	Air	SUS	PVC
15A	250	150	6	2
20A	300	200	7	2
25A	300	200	10	2.5
32A	200	200	12	3
40A	200	200	13	3
50A	300	300	16	5
65A	400	300	23	6.5
80A	400	300	30	10
100A	500	300	45	14
125A	500	300	60	22
150A	500	300	80	30
200A	500	300	130	50

LAH-2, LHD-2

Size	Float	Liquid(M³/h), Gas(NM³/h)				Pressure Loss Approx. mmAq	
		Upper is Min, Flowrate, Lower is Max, Flowrate in Same Size.					
		Water	Selected Flowrate of Liquid		Selected Flowrate of Gas	Water	Air
	SUS304	SUS304	PVC	SUS304			
15A	0.1 ~ 1	0.02 ~ 0.2	0.05 ~ 0.5	0.6 ~ 6	10	3	
		0.2 ~ 2	0.15 ~ 1.5	3 ~ 30			
20A	0.2 ~ 2	0.08 ~ 0.8	0.1 ~ 1	1.6 ~ 16	10	3	
		0.35 ~ 3.5	0.25 ~ 2.5	5 ~ 50			
25A	0.4 ~ 4	0.1 ~ 1	0.1 ~ 1	2 ~ 20	10	3	
		0.6 ~ 6	0.4 ~ 4	9 ~ 90			
32A	0.6 ~ 6	0.1 ~ 1	0.1 ~ 1	2 ~ 20	7	3	
		1 ~ 10	0.8 ~ 8	15 ~ 150			
40A	0.8 ~ 8	0.2 ~ 2	0.2 ~ 2	4 ~ 40	7	3	
		1.5 ~ 15	1.2 ~ 12	20 ~ 200			
50A	1.5 ~ 15	0.5 ~ 5	0.5 ~ 5	6 ~ 60	7	3	
		2.5 ~ 25	1.5 ~ 15	40 ~ 400			
65A	2.5 ~ 25	0.8 ~ 8	1.2 ~ 12	10 ~ 100	7	3	
		4 ~ 40	3 ~ 30	60 ~ 600			
80A	4 ~ 40	1.2 ~ 12	1.5 ~ 15	12 ~ 120	7	2	
		5 ~ 50	4 ~ 40	80 ~ 800			
100A	6 ~ 60	2.5 ~ 25	3 ~ 30	25 ~ 250	7	2	
		9 ~ 90	7 ~ 70	120 ~ 1200			
125A	10 ~ 100	4 ~ 40	5 ~ 50	40 ~ 400	5	2	
		15 ~ 150	12 ~ 120	200 ~ 2000			
150A	14 ~ 140	6 ~ 60	8 ~ 80	60 ~ 600	5	2	
		20 ~ 200	15 ~ 150	300 ~ 3000			
200A	20 ~ 200	10 ~ 100	12 ~ 120	100 ~ 1000	3	2	
		28 ~ 280	20 ~ 200	400 ~ 4000			

LAH-2 Series

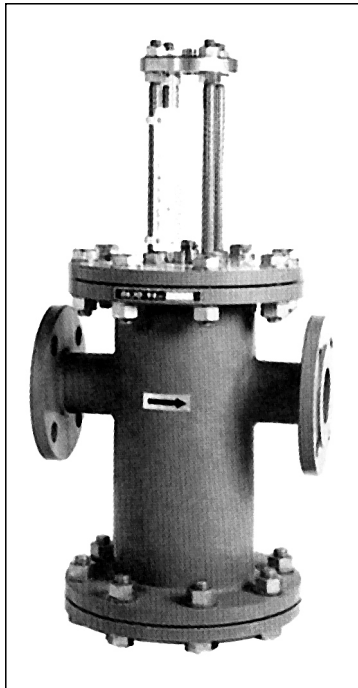
■ 재질과 규격



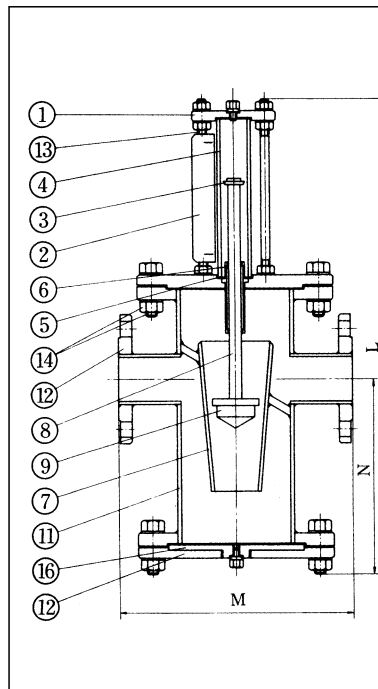
LAH-2

	Material			
	Parts	Standard		Option
1	Upper Flange	SUS304, PVC		SUS316
2	Scale Plate	White PVC(Acryl)		
3	Index	SUS304, PVC		Teflon
4	Sight Glass	Pyrex Glass		
5	Packing	Neoplene	PVC	Teflon
6	Air Chamber	SUS304	PVC	SUS316 Lining
7	Stopper			
8	T-Tube			
9	Taper Tube			
10	Float Load			
11	Float			
12	Guide			
13	Flange	SS41		SUS304
14	Strut			
15	Bolt & Nuts			

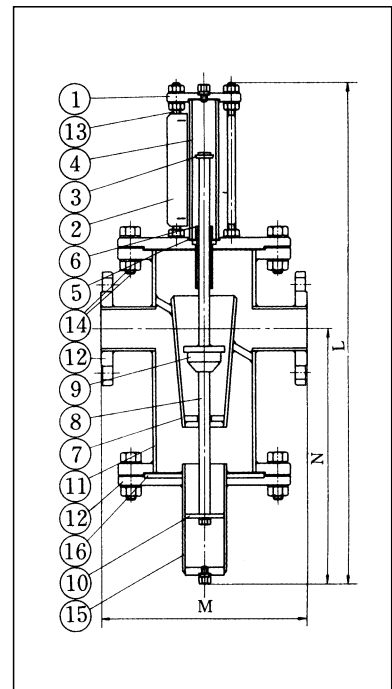
■ LAH-5 규격



LAH-5



LAH-5



LAH-5-D



Best for Best

KOREA FLOWCELL CO., LTD.

본사 : 인천광역시 부평구 청천동 376-6

대표전화 : (032)522-5161 FAX : (032)522-5166

공장 : 인천광역시 부평구 청천동 376-6

대표전화 : (032)528-1038 FAX : (032)514-1698

Metal Type Indicator

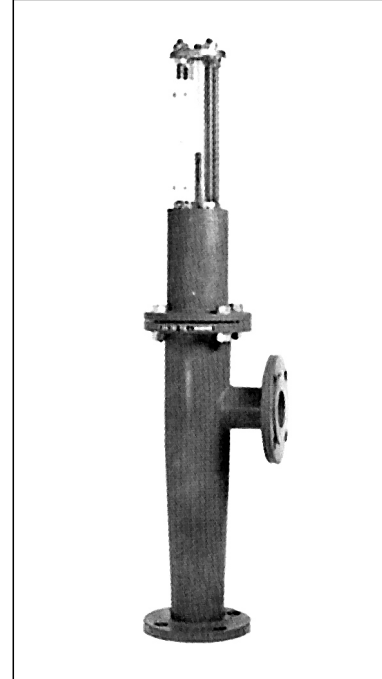
MODEL : LHD-2 Series

■ 개 요

지시부 하단에 에어 챔버를 설치하여 지시부에 유체의 유입을 방지한다. 오니, 스라리액 등 폐수용으로 최적입니다.

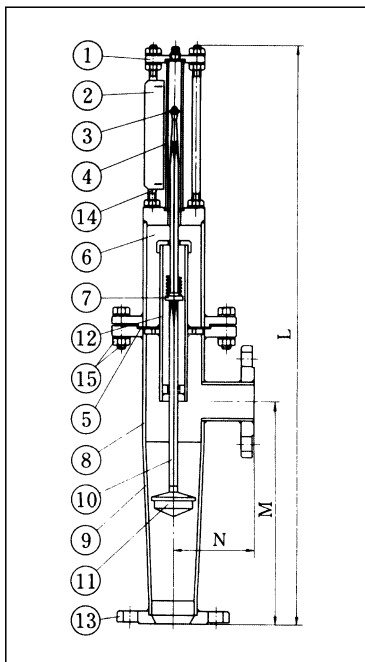
■ 형 식

LHA-2-□
A Alarm



LHD-2

■ 규 격



LHD-2

Dimension (mm)				
Size	M	N	L	
15A	240	80	695	
20A	240	80	720	
25A	260	100	745	
32A	260	100	750	
40A	280	100	750	
50A	320	120	845	
65A	320	150	870	
80A	340	150	925	
100A	400	180	1115	
125A	440	220	1200	
150A	480	250	1345	
200A	600	280	1465	

Size	Pressure Loss mmAq	Weight kgf	
		Body	
	LIQUID	SUS	PVC
15A	550	4	2
20A	400	5	2
25A	450	8	2.5
32A	300	9	3
40A	300	12	3.5
50A	350	15	5.5
65A	450	23	7
80A	650	26	11
100A	650	38	15
125A	1050	60	25
150A	850	85	35
200A	700	140	55

■ 기타 제품

◆ DIFFERENTIAL PRESSURE TYPE FLOWMETER(MODEL : FLT, FLG, FLY, FLW)

- Easy of disassembly and cleaning(taper tube and strainer)
- Installs either horizontally or vertically
- When used with connector cell block, flow indication can be transferred to a remote position.
- When used with a cock-piece, no by-pass line required.

◆ VARIABLE AREA TYPE FLOWMETER(MODEL : SGK, SHK)

- Most popular type of variable area type flowmeter.
- Suitable for medium to large flows.
- Due to a float guide rod, the taper tube cannot be damaged by the float.

◆ METAL TUBE TYPE VARIABLE AREA FLOWMETER(MODEL : FMV, JBH)

- Local indication, electric transmission, alarm and integrations are available to meet your requirements.
- Simple and compact with a wide range of measurement.
- All possible metallic materials are available.

◆ METAL TUBE TYPE VARIABLE AREA FLOWMETER(MODEL : LHD)

- The most suitable type for muddy water, slurries and waste water.

◆ PURGE METER(MODEL : STO-4-M II)

- Simply designed and standardized flow meters.
- Most suitable for laboratories and small equipment.



Best for Best

KOREA FLOWCELL CO., LTD.

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공장 : 인천광역시 부평구 청천동 376-6
대표전화 : (032)528-1038 FAX : (032)514-1698

All Metal Tube Type and Potentiometer Type

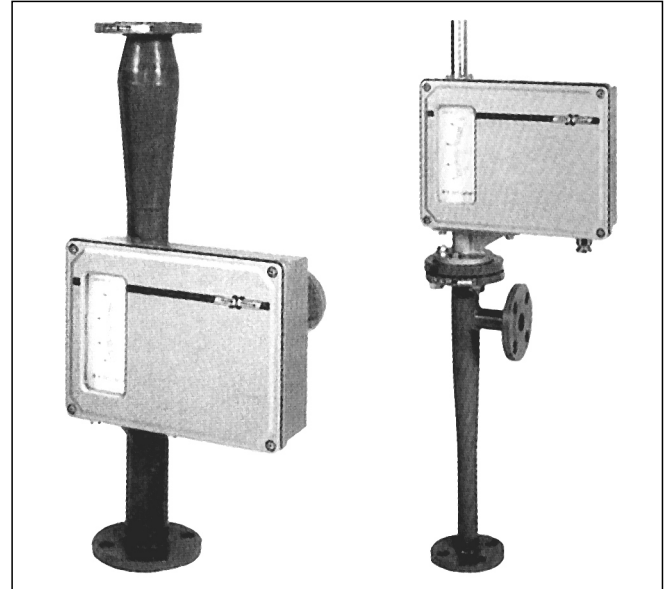
MODEL : JBH Series

■ 개 요

이 유량계는 유량에 따른 후로트의 위치를 마그네트 커플링에 의해 외부로 전달하고, 계기부 내에 설치된 지침에 의해 현장에서 순간 유량을 지시합니다. 또 지표의 움직임을 포텐션메타에 의해 전위차로 변환하여 원격전송을 합니다.

■ 특 징

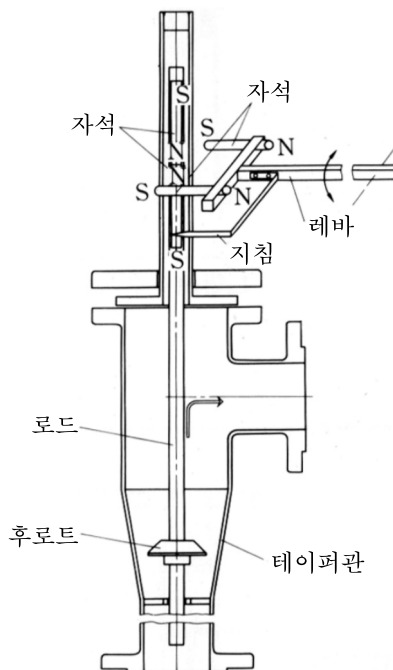
- 현장지시, 4~20mA output, 적산, 알람 기능을 요구에 따라 선택할 수 있다.



JBH-1-□

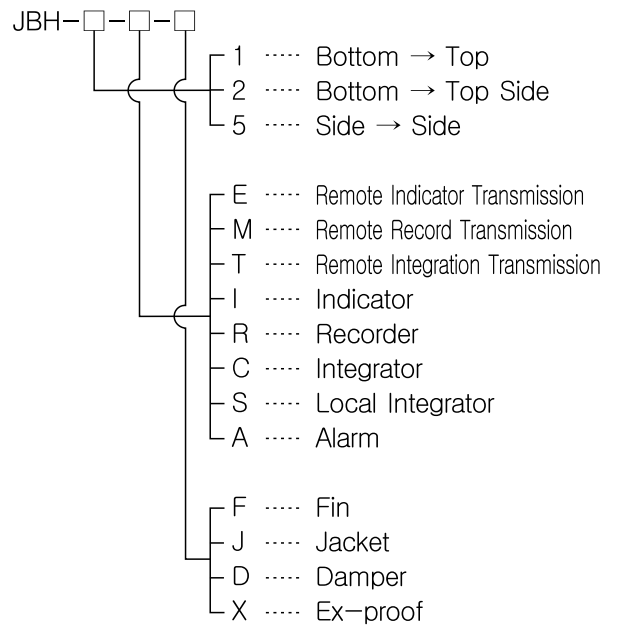
JBH-2-□

■ 원 리



JBH형 원리도

■ 형식 선정

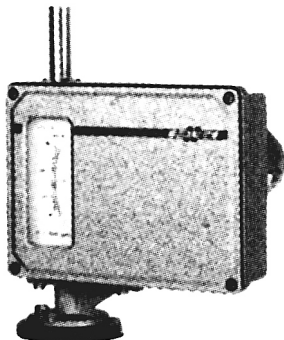


JBH Series

표준 사양

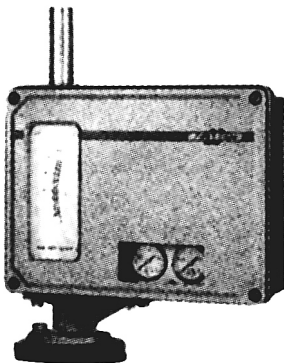
- Meter Size : 15m/m(1/2") ~ 200m/m(8")
- Material : SUS304, SUS316
- Pressure Rating : 10kgf/cm²G
- Connection : JIS 10K Flange Connection
- Accuracy : $\pm 2\%$ (F.S)
- Range Ability : 10:1

JBH SERIES LOCAL INDICATOR WITH ELECTRIC TRANSMITTER



- Accuracy : $\pm 2\%$ of F.S
- Power Supply : 100V AC or 200V AC or 24V DC
- Frequency : 50 / 60Hz
- Output : 4 ~ 20mA DC or 1 ~ 5V DC
- Output Accuracy : Within $\pm 0.5\%$ of local indication scale

JBH SERIES LOCAL INDICATOR WITH PNEUMATIC TRANSMITTER



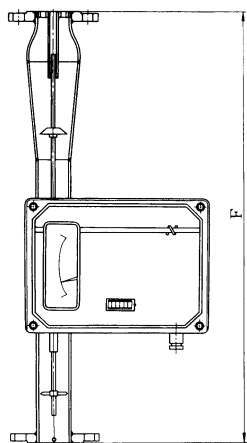
- Accuracy : $\pm 2\%$ of F.S
- Supply of pneumatic pressure : 1.4kgf/cm²G
- Output of pneumatic pressure : 0.2 to 1.0kgf/cm²G
- Consumption of pneumatic pressure : 0.5N^m/h
- Output Accuracy : Within $\pm 0.5\%$ of local indication scale
- Connection of supply/output : 1/4" PT(Female)
- Case of body : Aluminium

NOTE : Sizes, Flow range, Max operating pressure / temperature and materials are the same as model JBH-2 data shown in above.

JBH Series

■ TYPE JBH-1-□

Flow Direction(Bottom → Top)

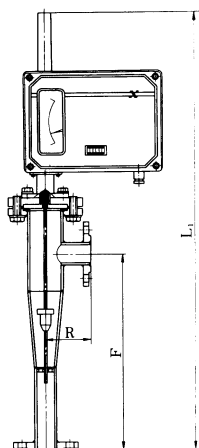


Size	H ₂ O(m ³ /h)	F
1/2B 15A	0.1 ~ 1	550
3/4B 20A	0.2 ~ 2	550
1B 25A	0.4 ~ 4	550
1 1/4B 32A	0.6 ~ 6	750
1 1/2B 40A	0.8 ~ 8	750
2B 50A	1.5 ~ 15	750
2 1/2B 65A	2.5 ~ 25	750
3B 80A	4 ~ 40	750
4B 100A	6 ~ 65	800
5B 125A	10 ~ 100	800
6B 150A	15 ~ 150	1000
8B 200A	20 ~ 200	1000

No.	Description	Standard	Option	
1	Tapered tube	SUS304	SUS316	SUS316L
2	Float ass'y	SUS304	SUS316	SUS316L
3	Body	SUS304	SUS316	SUS316L
4	Flange	SUS304	SUS316	SUS316L
5	Upper flange	SS41	SS41	SS41
6	Lead pipe	SUS304	SUS316	SUS316L
7	Bolt & nut	SS41	SS41	SS41
8	Gasket	NBR	Asbestos /Teflon	Asbestos /Teflon

■ TYPE JBH-2-□

Flow Direction(Bottom → Top Side)

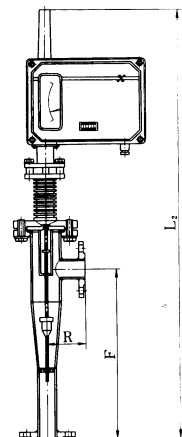


Size	H ₂ O(m ³ /h)	F	L ₂
1/2B 15A	0.1 ~ 1	400	860
3/4B 20A	0.2 ~ 2	400	860
1B 25A	0.4 ~ 4	400	880
1 1/4B 32A	0.6 ~ 6	420	910
1 1/2B 40A	0.8 ~ 8	420	910
2B 50A	1.5 ~ 15	480	980
2 1/2B 65A	2.5 ~ 25	500	1010
3B 80A	4 ~ 40	550	1070
4B 100A	6 ~ 65	600	1140
5B 125A	10 ~ 100	650	1190
6B 150A	15 ~ 150	700	1260
8B 200A	20 ~ 200	800	1420

No.	Description	Standard	Option	
1	Tapered tube	SUS304	SUS316	SUS316L
2	Float ass'y	SUS304	SUS316	SUS316L
3	Body	SUS304	SUS316	SUS316L
4	Flange	SUS304	SUS316	SUS316L
5	Upper flange	SS41	SS41	SS41
6	Lead pipe	SUS304	SUS316	SUS316L
7	Bolt & nut	SS41	SS41	SS41
8	Gasket	NBR	Asbestos /Teflon	Asbestos /Teflon

■ TYPE JBH-2-F

Flow Direction(Bottom → Top Side)



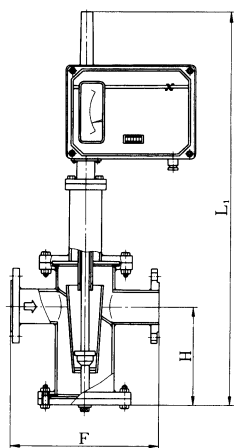
Size	H ₂ O(m ³ /h)	F	L ₂
1/2B 15A	0.1 ~ 1	80	1010
3/4B 20A	0.2 ~ 2	80	1010
1B 25A	0.4 ~ 4	100	1030
1 1/4B 32A	0.6 ~ 6	100	1090
1 1/2B 40A	0.8 ~ 8	100	1090
2B 50A	1.5 ~ 15	120	1160
2 1/2B 65A	2.5 ~ 25	150	1190
3B 80A	4 ~ 40	150	1270
4B 100A	6 ~ 65	180	1340
5B 125A	10 ~ 100	220	1390
6B 150A	15 ~ 150	250	1460
8B 200A	20 ~ 200	280	1620

No.	Description	Standard	Option	
1	Tapered tube	SUS304	SUS316	SUS316L
2	Float ass'y	SUS304	SUS316	SUS316L
3	Body	SUS304	SUS316	SUS316L
4	Flange	SUS304	SUS316	SUS316L
5	Upper flange	SS41	SS41	SS41
6	Lead pipe	SUS304	SUS316	SUS316L
7	Bolt & nut	SS41	SS41	SS41
8	Gasket Teflon	NBR	Asbestos /Teflon	Asbestos /Teflon

JBH Series

■ TYPE JBH-5-□

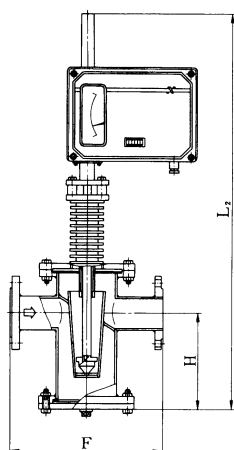
Flow Direction(Side → Side)



Size	H ₂ O(m ³ /h)	Pressure Loss(mmAq)	F	H	L ₁	L ₂
1/2B 15A	0.1 ~ 1	800 Max.	150	165	720	770
3/4B 20A	0.2 ~ 2	800	180	165	720	770
1B 25A	0.4 ~ 4	800	200	175	800	850
1 1/4B 32A	0.6 ~ 6	800	250	185	840	890
1 1/2B 40A	0.8 ~ 8	800	250	185	840	890
2B 50A	1.5 ~ 15	800	280	220	880	930
2 1/2B 65A	2.5 ~ 25	900	350	220	880	930
3B 80A	4 ~ 40	900	400	240	920	970
4B 100A	6 ~ 65	1000	500	280	970	1020
5B 125A	10 ~ 100	1200	550	320	1020	1070
6B 150A	15 ~ 150	1200	600	320	1030	1080
8B 200A	20 ~ 200	1500	700	320	1030	1080

■ TYPE JBH-5-F

Flow Direction(Side → Side)



No.	Description	Standard	Option	
1	Tapered tube	SUS304	SUS316	SUS316L
2	Float ass'y	SUS304	SUS316	SUS316L
3	Body	SUS304	SUS316	SUS316L
4	Flange	SUS304	SUS316	SUS316L
5	Upper flange	SS41	SS41	SS41
6	Lead pipe	SUS304	SUS316	SUS316L
7	Bolt & nut	SS41	SS41	SS41
8	Gasket	NBR	Asbestos /Teflon	Asbestos /Teflon



Best for Best

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