



KTV-700 Series

Vortex Flow meter with
All Fluid Measurements

FEATURE

- 설치 비용과 유지관리 비용이 타사 제품에 비해 획기적으로 낮음
- 플랜지 또는 공간 절약용 웨이퍼 타입 선택 가능
- Connection Size 대비 Tube Size 줄이기 가능
- 구동 부품이 없어 내구성이 우수하며 수명이 김
- 액체, 기체, 스팀 등 다양한 유체에 적용 가능
- 측정 유량 범위가 높고 상대적으로 적은 압력 손실

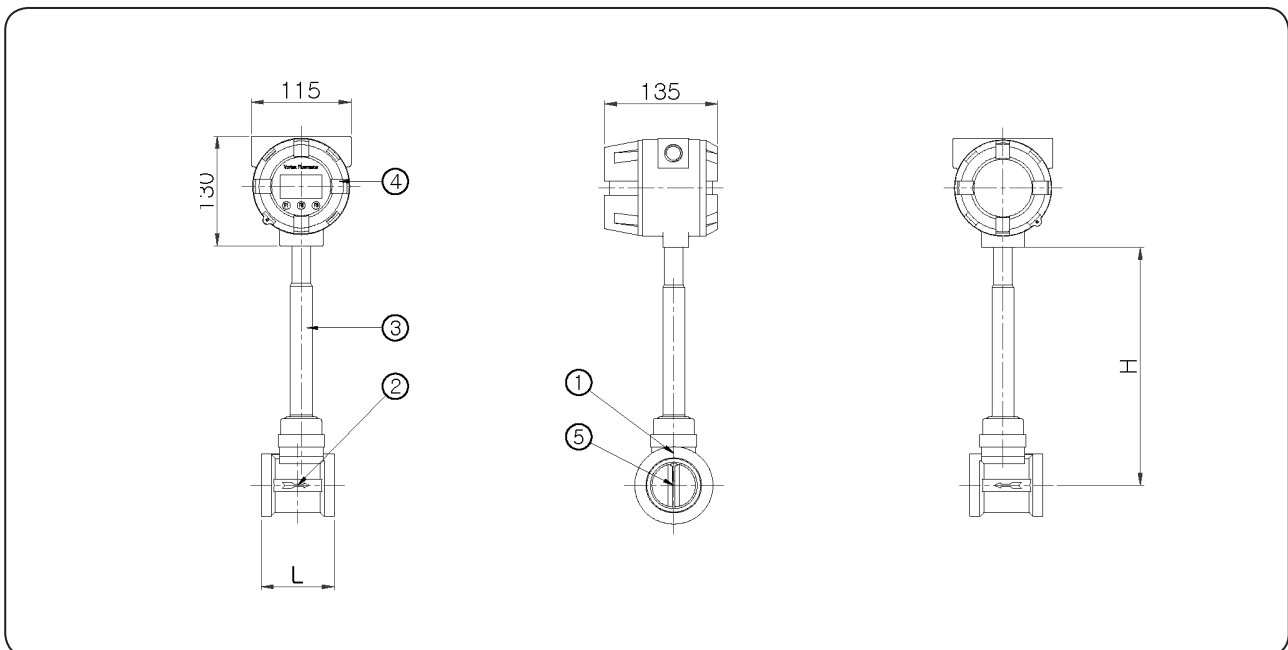
APPLICATIONS

- ▶ 일반적인 적용 분야
 - 유틸리티 용도 : 에너지 분배로 사용되는 보조 및 공급 라인
- ▶ 화학 및 기타 공정 산업
 - 가스, 용접 가스, 증기, 탄화 수소(hydrocarbon), 열 오일 등
 - 석유 화학 제품(벤젠, 에틸렌 등)
- ▶ 철, 강철 및 금속 산업
 - 냉각 회로 산소, 천연 가스, 증기
- ▶ 하수 산업, 재생 에너지 산업
 - CHP(복합 난방 및 전력)시스템 입구의 건조 및 습한 바이오 가스
- ▶ 제지업
 - 압축 공기, 증기 등

■ KTV-700 General Specifications

Size	15A (1/2") - 65A (2-1/2")
Process Connection	Flange type - Standard JIS10K RF (Option. ANSI 150#, DIN 16 bar) Wafer type
Measuring Range	Water - 0.7 m ³ /h – 68 m ³ /h Gas - 3.5 Nm ³ /h – 480 Nm ³ /h
Accuracy	±1.0 % F.S (Option ±0.5 %)
Fluid Temperature	-40 °C ~ 250 °C (Option 350 °C)
Ambient Temperature	-25 °C ~ 60 °C
Max Pressure	20 kgf/cm ² .G (Option 40 kgf/cm ² .G)
Power Supply	DC 24 V (2-Wire)
Display	LCD Display (Flowrate, Totalizer)
Output	DC 4-20 mA, Pulse (Option RS-485)
Protection Class	Ex d IIC T5
IP Grade	IP67

■ STRUCTURAL DRAWING (Wafer Type)



MODEL CODE

KTV - 700	-	<input type="checkbox"/>	-	<input type="checkbox"/>	Specification
		F			Connection - Flange Type
		W			Connection - Wafer Tpye
				EX	Ex d IIC T5 / IP67

DIMENSIONS

Size		L	H1	H2
mm	inch			
15	1/2"	80	200	195
20	3/4"	80		
25	1"	80		
32	1-1/4"	80		
40	1-1/2"	90		
50	2"	90	220	
65	2-1/2"	90		

* Height (H1, H2)는 사양에 따라 변경될 수 있음.

STANDARD MATERIAL

No.	Description	Material	
		A	B
1	Wafer	304SS	316SS
2	Body	304SS	316SS
3	Bar	304SS	
4	Indicator	CAST ALUMINUM	
5	Flow Sensor	304SS	316SS

NORMAL FLOW RANGES

Size		Water (m ³ /h)	Gas (Nm ³ /h) *1 atm / 20°C 기준
mm	inch		
15	1/2"	0.7 - 7	3.5 - 35
20	3/4"	1 - 10	5 - 50
25	1"	1.6 - 16	7 - 70
40	1-1/2"	2.5 - 25	22 - 220
50	2"	3.5 - 35	32 - 320
65	2-1/2"	6.8 - 68	48 - 480

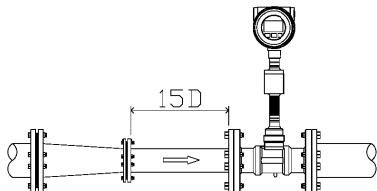
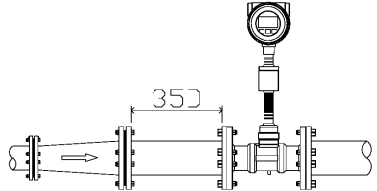
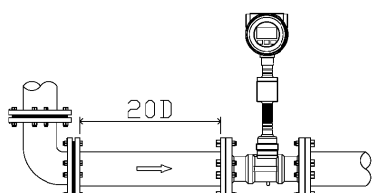
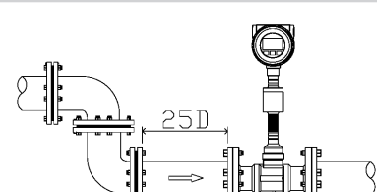
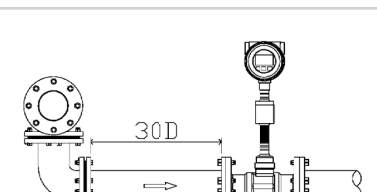
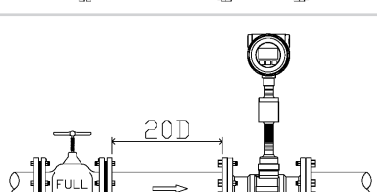
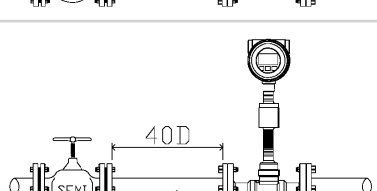
■ GAS FLOW RANGES

Size		Max. Flow ranges (Nm ³ /h) (1 atm/20 °C)					
mm	inch	1 kg/cm ² .G	2 kg/cm ² .G	4 kg/cm ² .G	6 kg/cm ² .G	8 kg/cm ² .G	10 kg/cm ² .G
15	1/2"	80	110	180	250	310	380
20	3/4"	110	150	250	350	440	540
25	1"	150	210	350	480	620	760
40	1-1/2"	440	650	1080	1510	1930	2360
50	2"	630	950	1570	2190	2810	3420
65	2-1/2"	950	1420	2350	3270	4200	5130

■ SATURATED STEAM FLOW RANGES

Size		Max. Flow ranges (kg/h)					
mm	inch	1 kg/cm ² .G	2 kg/cm ² .G	4 kg/cm ² .G	6 kg/cm ² .G	8 kg/cm ² .G	10 kg/cm ² .G
15	1/2"	39	57	92	126	160	194
20	3/4"	55	81	131	180	229	277
25	1"	78	113	183	252	320	387
40	1-1/2"	244	357	577	792	1005	1217
50	2"	355	519	839	1152	1462	1771
65	2-1/2"	532	778	1258	1728	2194	2656

DRAWING OF INSTALLATION

Classification	Upstream Pipe style	Length of straight Pipeline Inlet	Length of straight Pipeline Outlet
Concentric Shrink tube (동심축소관)		15D	7D
Concentric Enlarge tube (동심확대관)		35D	17D
Elbow		20D	10D
Two Same Plane elbow		25D	12D
Two Different Plane elbow		30D	15D
Full Open Valve		20D	10D
Semi Open Valve		40D	20D