



DPE-S-PT Series

Differential Pressure Flow meter
to Provide Reliable Flow Solutions

■ FEATURE

- Automatic correction of temperature and pressure
- Applicable to most of fluids
- Can be used for high temperature and pressure fluids and their piping conditions
- Momentary flow and integrated flow can be easily checked on the monitor
- High precision even under fluctuating temperature and pressure conditions
- The output signal can be linked with various devices
- Can be freely installed horizontally and vertically
- Can be manufactured with a small diameter up to a large diameter
- Explosion Proof Certification : Ex d IIC T5 / IP67)

■ APPLICATIONS

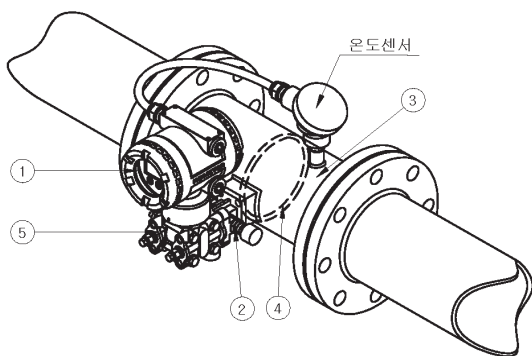
- ▶ Chemical and Other Process Industries
 - Injecting fibric products with adhesiveness
 - Emulsified liquid including latex and emulsion.
 - Condensate and Cooling water
- ▶ Refinery & Gas Industry
 - Injection plant for corrosion, scaling and hydrate inhibitors
 - Nitrogen, Flue gas, etc.
- ▶ Machinery and Equipment (OEM industry)
 - Coolant, Coolant, Lubricant, Air supply
- ▶ Water resources
 - Spray oxygen on the aeration basin
 - Air injection to reduce iron content
- ▶ Power plants and Nuclear power industry

DPE-S-PT General Specifications

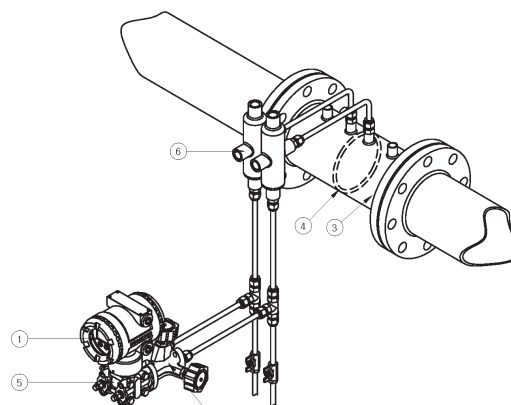
Size	10A (3/8") - 500A (20")
Process Connection	Flange type - KS / JIS / ANSI / ASME / DIN Std. Taper Pipe Thread type (PT)
Measured Fluid	Gas and Liquid
Flow Ranges	Water - 0.1 m ³ /h ~ 2500 m ³ /h Air - 0.8 Nm ³ /h ~ 24000 Nm ³ /h
Range Ability	10 : 1
Accuracy	±2.0 % F.S (Option ±1.0 % F.S)
Fluid Temperature	Max 120 °C (Option 350 °C)
Ambient Temperature	-10 °C ~ 60 °C
Max. Pressure	Max. 20 kgf/cm ² .G (Option 50 kgf/cm ² .G)
Power Supply	AC 110/220 V (50~60 Hz)
Display	4 Lines LCD Mass Flow, Volume Flow in Standard Condition, Totalizer, Velocity, Time
Output	DC 4-20 mA, Pulse, RS485 (Modbus RTU), Contact (High, Low)
Explosion Proof Grade	Ex d IIC T5
Ingress Protection Grade	IP 67

STRUCTURAL DRAWING

Combination Type (Air / Liquid Under 100°C)



Separable Type (Steam / Hot Gas)



■ FLOW RANGE & DIMENSIONS

Connection size		Flow Ranges		Length (mm)	
		Water (m ³ /h)	Air (Nm ³ /h)	Flange	Screw
10A	3/8 B	0.05 - 0.5	0.4 - 4	350	70
15A	1/2 B	0.1 - 1.0	1 - 10	350	70
20A	3/4 B	0.25 - 2.5	2.5 - 25	350	70
25A	1 B	0.5 - 5	5 - 50	350	70
32A	1-1/4 B	1 - 10	6 - 60	350	70
40A	1-1/2 B	1.5 - 15	10 - 100	350	74
50A	2 B	2.5 - 25	20 - 200	350	85
65A	2-1/2 B	3.5 - 35	30 - 300	350	100
80A	3 B	5 - 50	40 - 400	350	100
100A	4 B	8 - 80	80 - 800	350	-
125A	5 B	12.5 - 125	125 - 1250	350	-
150A	6 B	20 - 200	170 - 1700	350	-
200A	8 B	30 - 300	280 - 2800	400	-
250A	10 B	50 - 500	500 - 5000	400	-
300A	12 B	80 - 800	780 - 7800	400	-
350A	14 B	100 - 1000	950 - 9500	400	-
400A	16 B	150 - 1500	1450 - 14500	400	-
450A	18 B	200 - 2000	1900 - 19000	400	-
500A	20 B	250 - 2500	2400 - 24000	400	-

■ STANDARD MATERIAL

No.	Description	Material		
		A	B	C
1	Transmitter	ADC12		
2	3-Way Valve	304SS		316SS
3	Orifice Body	SS400	304SS	316SS
4	Orifice	304SS		316SS
5	DP Seal	316SS		
6	Tank Syphon	SS400	304SS	316SS