

# DS – For large flow DSH – For middle pressure



DS-6A

**Materials** DS-1.6 ~ 16: Casing: Aluminium alloy die casting (ADC12) and zinc-coated steel plate

DS-25 ~ 160: Casing: Zinc-coated steel plate

All models:

Inner parts: Aluminium alloy die casting, zinc-coated steel plate and polyacetal resin

Diaphragm: Polyester cloth with hydrin rubber (CHC+NBR)

Other parts: Nickel-coated brass, stainless steel and polycarbonate (PC)

| Model          | Distance between inlet/outlet center | W   | H1  | H   | L   | L2  | Weight (kg) |
|----------------|--------------------------------------|-----|-----|-----|-----|-----|-------------|
| DS-1.6A        | 130                                  | 174 | 219 | 279 | 173 | 94  | 4.0         |
| DS-2.5A        | 130                                  | 174 | 240 | 299 | 178 | 102 | 5.0         |
| DS-4A, -6A     | 130                                  | 195 | 269 | 330 | 196 | 120 | 5.3         |
| DS-10A, -16A   | 220                                  | 300 | 341 | 421 | 253 | 167 | 11          |
| DS-25A         | 220                                  | 417 | 452 | 534 | 421 | 367 | 25          |
| DS-40A, -65A   | 320                                  | 513 | 573 | 655 | 474 | 423 | 39          |
| DS-100A, -160A | 380                                  | 639 | 728 | 841 | 559 | 519 | 73.5        |
| DSH-6          | 130                                  | 195 | 262 | 323 | 200 | 130 | 4.9         |
| DSH-10         | 200                                  | 300 | 341 | 421 | 252 | 184 | 12.7        |

## DS

**Operating pressure limit** 0kPa to 20kPa

**Operating temperature limit** -5°C to 40°C

## DSH-6

**Operating pressure limit** 0kPa to 50kPa

**Operating temperature limit** -5°C to 60°C

## DSH-10

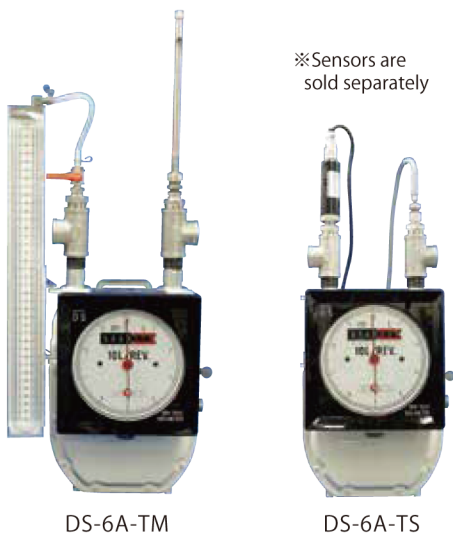
**Operating pressure limit** 0kPa to 100kPa

**Operating temperature limit** -5°C to 60°C

| Model   | Measuring range                                | Diaphragm capacity (L) | One revolution (L)* | Minimum scale (L) | Pulse rate (L/p) | Pressure loss (Pa) | Gas tube   |
|---------|------------------------------------------------|------------------------|---------------------|-------------------|------------------|--------------------|------------|
| DS-1.6A | 0.16 ~ 26.6L/min (0.01 ~ 1.6m <sup>3</sup> /h) | 0.6                    | 10                  | 0.2               | 0.1              | 220                | 20A 3/4B   |
| DS-2.5A | 0.37 ~ 41.6L/min (0.02 ~ 2.5m <sup>3</sup> /h) | 0.9                    | 10                  | 0.2               | 0.1              | 220                | 20A 3/4B   |
| DS-4A   | 0.5 ~ 66.6L/min (0.03 ~ 4m <sup>3</sup> /h)    | 1.7                    | 10                  | 0.2               | 0.1              | 220                | 20A 3/4B   |
| DS-6A   | 0.66 ~ 100L/min (0.04 ~ 6m <sup>3</sup> /h)    | 1.7                    | 10                  | 0.2               | 0.1              | 300                | 20A 3/4B   |
| DS-10A  | 1.16 ~ 166L/min (0.07 ~ 10m <sup>3</sup> /h)   | 4                      | 100                 | 2                 | 1                | 300                | 32A 1 1/4B |
| DS-16A  | 1.66 ~ 266L/min (0.1 ~ 16m <sup>3</sup> /h)    | 4                      | 100                 | 2                 | 1                | 300                | 32A 1 1/4B |
| DS-25A  | 2.5 ~ 416L/min (0.15 ~ 25m <sup>3</sup> /h)    | 9                      | 100                 | 2                 | 1                | 300                | 50A 2B     |
| DS-40A  | 5 ~ 666L/min (0.3 ~ 40m <sup>3</sup> /h)       | 20                     | 1000                | 20                | 10               | 300                | 50A 2B     |
| DS-65A  | 6.66 ~ 1083L/min (0.4 ~ 65m <sup>3</sup> /h)   | 20                     | 1000                | 20                | 10               | 300                | 50A 2B     |
| DS-100A | 10 ~ 1666L/min (0.6 ~ 100m <sup>3</sup> /h)    | 40                     | 1000                | 20                | 10               | 300                | 80A 3B     |
| DS-160A | 16.6 ~ 2666L/min (1.0 ~ 160m <sup>3</sup> /h)  | 40                     | 1000                | 20                | 10               | 400                | 80A 3B     |
| DSH-6   | 0.66 ~ 100L/min (0.04 ~ 6m <sup>3</sup> /h)    | 1.7                    | 10                  | 0.2               | 0.1              | 300                | 20A 3/4B   |
| DSH-10  | 1.16 ~ 166L/min (0.07 ~ 10m <sup>3</sup> /h)   | 4                      | 100                 | 2                 | 1                | 300                | 32A 1 1/4B |

\*Analogue pointer can be attached as an option

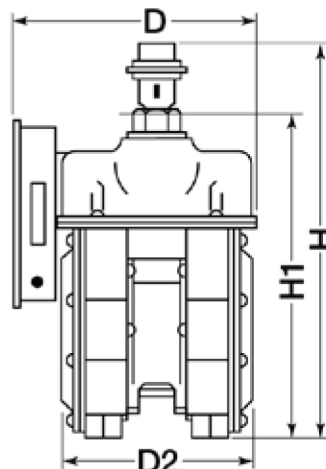
\*Rubber tube connection is available as an option



DS-6A-TM

DS-6A-TS

※Sensors are sold separately



Repeatability:  $\pm 0.3\%$  (standard deviation)

\*Changes depending on the measurement situation

## Symbols

DS (H) ① - ② A ③ - ④

\*Corrosion resistant uses Ce

- ① Pulse output  
A : Explosion-proof  
Da : Regular (magnified)  
Blank : Regular
- ② Maximum flow rate  
1.6/2.5/4/6/10/16/25/40/65/100/160
- ③ Option  
o : Degreased
- ④ Option  
T : Analogue pointer  
M : With 3.6kPa manometer and rod thermometer  
S : With mounting brackets for temperature and pressure sensors  
R : Rubber tube joint  
Without : Gas pipe joint (standard)  
Z : Resettable counter