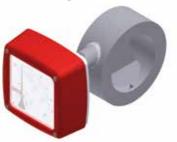
Paddle Type Flow Meter TSK Versions / Variants

Indicator housing made of aluminum









Indicator housing made of stainless steel

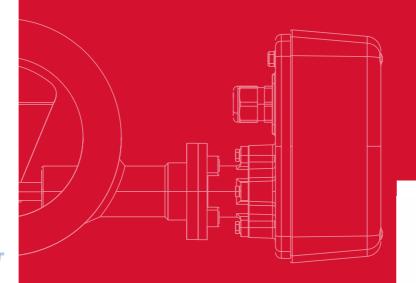






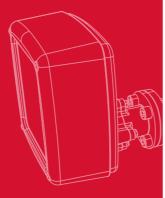
Special materials







100 YEARS OF EXPERIENCE IN PROCESS INSTRUMENTATION
We measure flow, mass, density, level and pressure.





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100 YEARS OF EXPERIENCE IN PROCESS INSTRUMENTATION We measure flow, mass, density, level and pressure.



Paddle Type Flow Meter TSK

Robust, reliable, cost-effective and everything included

- > DN 25 (1") to DN 600 (24")
- > Numerous communication interfaces
- > Materials available for various applications
- > Wide process temperature range from -40°C to 300°C

Paddle Type Flow Meter TSK Modular design

A housing with all possibilities

Due to a modern and modular design of the system - depending on customer applications - various solutions can be realized in one housing.



- > Scale indicator on site
- > Switch contacts mechanical or inductive
- > Digital indicator with total counter
- Measurement transducer (ES) with numerous communication interfaces
- > 4...20 mA
- > HART
- > Profibus
- > Foundation Fieldbus













Paddle Type Flow Meter TSK Application examples "rough environment"

Precise measurement even in rough environments





Paddle Type Flow Meter TSK Installation situations

All mounting positions possible

...from left to right



...from top to bottom



...from right to left



Due to the possibility to install the meter in all mounting positions,

a retrofitting of the pipe arrangements are not neccessary.

...from bottom to top



Paddle Type Flow Meter TSK

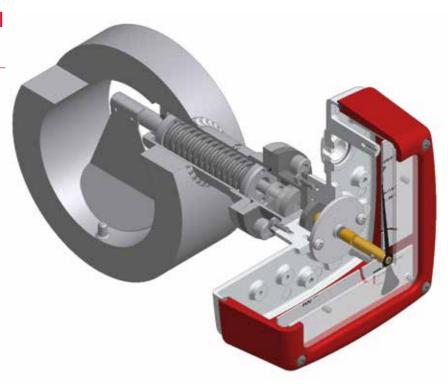
Thought out to the smallest detail

Flow-optimised flap

The wafer construction of the device does have a flowoptimised flap and requires therefore only max. 1/3 of the internal cross section. The axles are extremely oversized and therefore do not need any counter bearings.

Depending on the application, the meters can be equipped with plain, ball or spherical bearings and / or with shaft seals.

For use in aggressive liquids Hastelloy as well as various plastic versions, e.g. PTFE or PP are available.



Paddle Type Flow Meter TSK Performance data

Overview

> Nominal sizes: DN25...DN600 (1"...24")

Process connection: wafer type according EN 1092-1;

ASME B₁₆,5

> Measuring ranges: Qmin: 0,5 m3/h1500 m3/h H₂O

> Accuracy: $\pm 2.5\%$ FS Repeatability: $\pm 0.5\%$

> Materials: Stainless steel, Hastelloy C22, PTFE

Special materials on request

> Nominal pressure: PN16 / PN40 ; ASME CL 150/300

> Process temperature: -40....+200 °C/..+300°C with

displaced indicator PTFE -20...+125°C

> Indicator: Aluminum IP65

Stainless steel IP67

> Scale: high-resolution 90°

> Transmitter: Type ES (14-30 VDC); accuracy \pm 0,2%

4-20 mA HART

4-20 mA HART + 2 Namur contacts 4-20 mA HART + 1 Namur contacts +

Pulse output Profibus PA

Foundation FIELDBUS
Binary input 1+2 (Option)
(reset e.g. counter reading)

> T_{Ambient:} -40....+70°C

> Hazardous area approvals: ATEX / IEC Ex II GD; IIG Ex ia IIC T6 /

II D Ex iaD 20 T108









