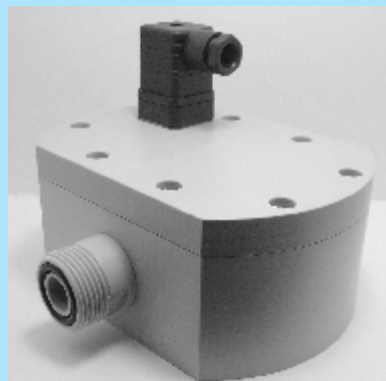


Your Partner for low-flow Flow meters has principles!

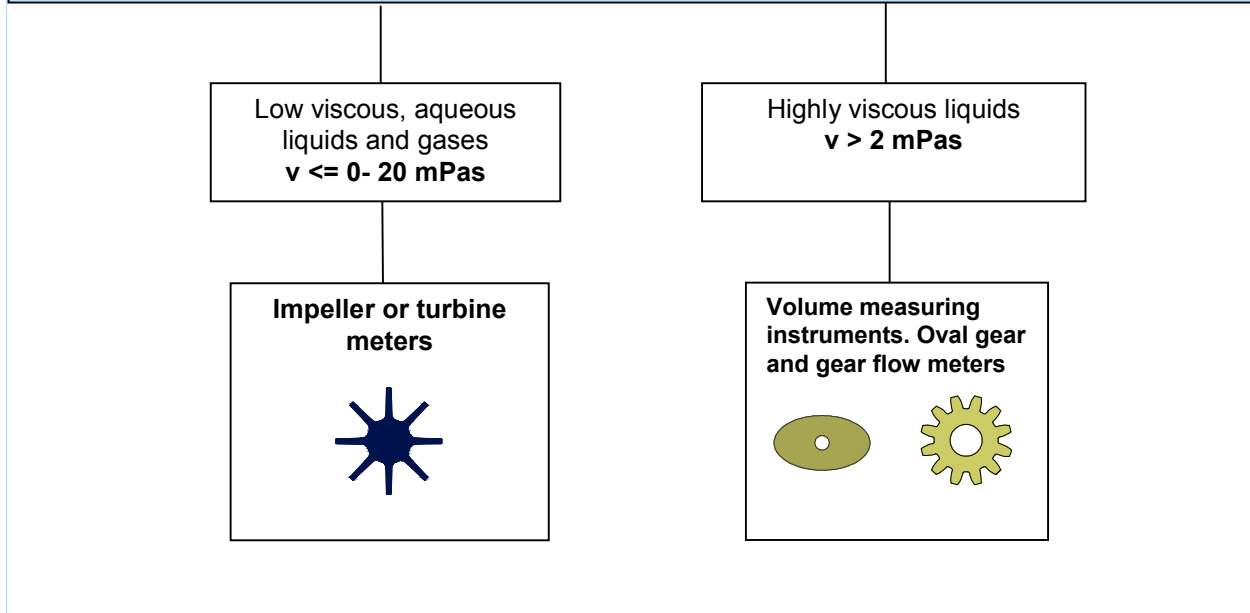
Turbine- and paddle wheel Flow meters



Oval gear- and gear wheel Flow meters



Applications of the principles of measurement



Applications of the used materials

| | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PP, PVDF, PTFE, PPS, ECTFE, Peek, Stainless steel 316L / 1.4571 | POM (Polyoximethylen), PC (Polycarbonat), PA (Polyamid) | POM (Polyoximethylen) PA (Polyamid), ALU (Aluminium) |
| <p>Chemically aggressive liquids</p> <ul style="list-style-type: none"> - Acids - Alkalines - Disinfectants - Solvents - VE-water - DI water | <p>Neutral Liquids</p> <ul style="list-style-type: none"> - Water - Glycole-water mix. - aqueous liquids - Ink (liquid) - Solvent (PC) | <p>Petrochemical Products</p> <ul style="list-style-type: none"> - Diesel - Gasoline - Oil - Vegetable oil - Palm oil - Petroleum - Kerosene |

Temperature range:
POM, PA => 80°C
PC, PP, PVDF, ECTFE => ca. 100 °C
PPS, Peek, PTFE, Stainless steel 316L / 1.4571=> 180°C

Turbine- and paddle wheel Flow meters

|  <p>Turbine</p> | <p>Application Measuring and dosing of aqueous fluids</p> | <p>Series</p> | <p>Flow range (Q) LPM</p> |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | <p>FCH-mini-PC /TR FCH-mini-PP /PVDF FCH-mini-POM FCH-mini-ALU</p> | <p>The measuring range depends from nozzle size. Q= 0,015 - 6 LPM</p> |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | <p>FCH-midi-TR FCH-midi-PVDF FCH-midi-POM</p> | <p>The measuring range depends from nozzle size. Q= 0,05- 10 LPM</p> |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | <p>FCH-PP FCH-PVDF/PTFE DFM-ALU</p> | <p>The measuring range depends from nozzle size. Q= 0,05- 8 LPM</p> |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | <p>DFM-POM DFM-ECTFE/ PVDF DFM-POM</p> | <p>Q= 0,5- 21 LPM</p> |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | <p>FCH-C-PA / MS -- FCH-C-Messing</p> | <p>Q=0,5- 30 LPM</p> |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | <p>FCH-34-POM FCH-34-PP FCH-34-ALU</p> | <p>Q= 0,5- 100 LPM.</p> |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | <p>FCH-SE-PP FCH-SE-PP FCH-SE-Messing</p> | <p>Q= 1- 1000 LPM</p> |
|  <p>OEM</p> | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | <p>on request on request on request</p> | <p>0,015- 1000 LPM</p> |

Oval gear- and gear wheel Flow meters

NEW

VZS 003-Series Q= 0,001- 0,3 LPM



| Oval gear  | Application Measuring and dosing of medium to high viscosity fluids. | Series | Flow range (Q) LPM |
|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | VZS 003-5-ALU VZS 003-5-VA VZS 003-5-ALU | VZS 003-Series Q= 0,001- 0,3 LPM VZS 005-Series Q= 0,005- 1,5 LPM |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | VZO-03-PP/ PVC VZO-03-ECTFE --- | Q= 0,033- 1,5 LPM |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | VZO-08-PP/ PVC VZO-08-ECTFE --- | Q= 0,08- 1,8 LPM |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | VZS 007-ALU VZS 007-VA VZS 007-ALU | Q= 0,5- 21 LPM |
| Gear wheel  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | FCH-C-PA / MS - FCH-C-Messing | Q= 0,5- 30 LPM |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | VZB-04-POM VZB-04-PP VZB-04-ALU | Q= 0,04- 3 LPM |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | VZB-04-POM VZB-04-PP/PE VZB-04-ALU | Q= 0,1- 5 LPM |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | VZB-10-PP VZB-10-PP VZB-10-ALU | Q= 0,1- 10 LPM |

Gear wheel Flow meters and Electronics

| Gear wheel  | Application Measuring and dosing of medium to high viscosity fluids. | Series | Flow range (Q) LPM |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------|
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | VZB-15-PP VZB-15-PP VZB-15-ALU | Q= 1,0- 75 LPM |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | VZB-32-PP VZB-32-PP VZB-32-ALU | Q= 0,033- 1,5 LPM |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | VZB-50-PP VZB-50-PP | Q= 5,0- 125 LPM |
| OEM Gear wheel meters | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis - Petrochemical Products (Diesel, Fuell, oil) | on request on request on request | Q= 0,05- 125 LPM |
| Electronic | <ul style="list-style-type: none"> - for all BT flow meters | ARS 260 ARS 261 FCC-01/ FCX 22 FLO | |
|  | <ul style="list-style-type: none"> - Flow rate and Totalizer - Differential electronic Addition- / Differential measurement | ARS 260 ARS 260-EC-01 ARS 261 ARS 261-EC-01 | |
|  | <ul style="list-style-type: none"> - Batch Controller with relay output - Flow controller with Hysteresis | FCC-01 FCX 22 | |
|  | <ul style="list-style-type: none"> - Digital analog converter for rail mounting. - Digital to analog converter in a intermedite cable | 0-5 V, 0-10 V 0-20 / 4- 20 mA 2- / 3-wire (Source oder Drain) | |

mobile Flow meters and accessories

| mobile Flow meter | Application | Series | Flow range (Q) LPM |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis Petrochemical Products (Diesel, Fuell, oil) | FCH-34-PP-mobil FCH-34-PP-mobil on request | Q= 1,0- 100 LPM |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis Petrochemical Products (Diesel, Fuell, oil) | Water-Doser auf Anfrage ---- | Q= 1- 80 LPM |
| Flow- switch | Application: as flow control or switch, dry run protection for pumps. | FS-01, Flow switch | |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis Petrochemical Products (Diesel, Fuell, oil) | FCH-m-FS, POM FCH-m-FS, PP FCH-m-FS, POM FS-01, Flow switch | on request on request on request on request |
| Accessories | Filters and Fittings from PP, Mounting plates for flow meters | | |
|  | <ul style="list-style-type: none"> - Neutral liquids - Acids and alkalis Petrochemical Products (Diesel, Fuell, oil) | FiltersPP-grey Filters-PP-grey Filters-stainless steel | |
|  | <ul style="list-style-type: none"> - Fittings with male thread from PP - Fittings with female thread from PP | on request on request | |
|  | <ul style="list-style-type: none"> - Mounting plate for flow meters | on request | |