

## **DOMINO: Flow Measurement, Batching, Filling**



For measuring liquids in the chemical, chemotechnical, pharmaceutical, cosmetic, food and beverage industries.

- for use in hazardous and non-hazardous areas
- for mounting in straight pipes (no shift in pipe axis necessary)
- easy to modify to meet new requirements
- on the spot adjustments possible
- recalibrating for quality assurance according to ISO9001 in works or on customer-owned test benches
- each meter available with test certificate
- manufacturer is Official Swiss Verification Service for Water, Heat, Oil and Calibration Service according to EN SN45001

The measuring principles used offer various advantages:

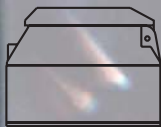
- suitable for both conductive and non-conductive liquids
- standard version for hazardous and non-hazardous areas
- flow measurements, batching and filling operations without power supply
- measuring part hermetically sealed from the meter secondaries, transmission is achieved through magnetic coupling
- simple to repair, easy on the spot maintenance
- no possibility of large errors occurring
- flow disturbances do not influence proper operation

**Meter Ancillaries**

- display in volumetric units (litre or m3), special version with display in US-Gallons available
- with pulser, roller counter or for batching devices

**RW**

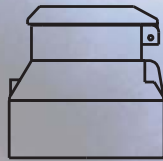
- Roller counter
- local totalization



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**RV**

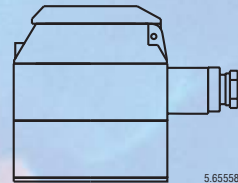
- Roller register with integrated Reed pulser
- local totalization
  - pulser for remote totalizing



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**IN**

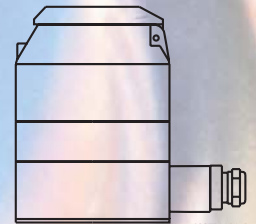
- Inductive pulser for industrial processing devices
- according to DIN 19234
  - available with two different resolutions
  - for use in hazardous areas zone 1
  - roller counter



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**INA**

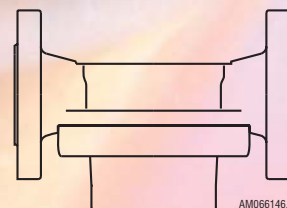
- Inductive pulser for industrial processing devices
- according to DIN 19234
  - with high resolution, especially for analogue signals or electronic batching controls
  - for use in hazardous areas zone 1
  - with or without roller counter



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**Measuring Units**

- different measuring principles (ARD, AMD and PMD)
- various materials according to the meter type (stainless steel, cast iron, brass, PTFE plastics)
- flanges according to DIN (in general also available with ANSI or JIS borings)



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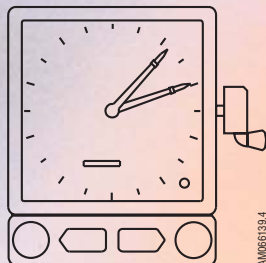
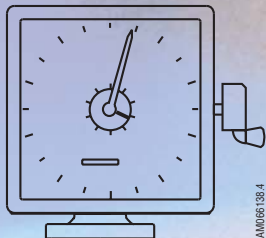
**ARD Ring Piston Meters  
for chemical liquids**

- |                  |                         |
|------------------|-------------------------|
| Nominal diameter | 15, 20, 25, 40, 50 mm   |
| Nominal pressure | 10, 16, 25, 40 bar      |
| Temperature      | 40, 50, 90, 130, 180°C. |
| Flow rate        | 10 - 30'000 l/h         |

## ... Suit Every Requirement

### Accessories

- batching devices for manual, semi-automatic and automatic control



### Electronic batching control

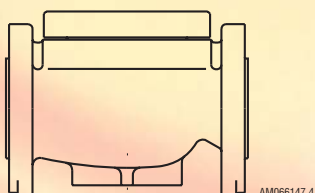
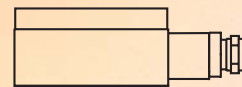
Combination of INA pulser with any external batching control.

### Meter Ancillaries GTAS

Linking gear unit for attachment of AS or ASP batching devices

### Meter Ancillaries INA

Pulser for electrical batching units



### AMD Vane Wheel Meters for chemical liquids

Nominal diameter 25, 40 mm  
 Nominal pressure 16, 25 bar  
 Temperature 90, 180°C.  
 Flow rate 140 - 12'000 l/h



### PMD Vane Wheel Meters for cold and hot water / batching

Nominal diameter 20, 25, 40 mm  
 Nominal pressure 16 bar  
 Temperature 90°C.  
 Flow rate 100 - 20'000 l/h

# DOMINO: System for Flow Measurement, Batching, Filling



## Batching Devices

### Mechanical Batching Devices

- for hazardous and non-hazardous areas
- type AS for batching by manual control
- type ASP for batching by semi-automatic pneumatic control

### Manual Control

type AS

Batching quantity up to 200, 2'000, 20'000 l

### Semi-Automatic Control

type ASP

Batching quantity up to 100, 200, 500, 1'000, 2'000, 5'000, 10'000 l

### Electronical Batching Devices

Pulser of meter to be connected to external batching control.

Measuring Principles	Liquids	Body with threaded ends	Body with flanges	Measuring chamber	Gaskets	Ring piston	Vane wheel bearings
<b>Ring Piston Meters</b>							
<b>ARD 1000</b>	<ul style="list-style-type: none"> <li>• paints</li> <li>• varnishes</li> <li>• mineral oils</li> <li>• solvents</li> <li>• molasses</li> </ul>	cast brass	cast iron	brass/PPS (130°C.), brass/PTFE (180°C.)	FPM <sup>1)</sup>	aluminium, ebonite, graphite, PTFE <sup>1)</sup>	
<b>ARD 2000</b>	<ul style="list-style-type: none"> <li>• caustic soda (sodium hydroxide)</li> <li>• vegetable oils</li> <li>• animal fats</li> </ul>		cast iron	stainless steel <sup>2)</sup>	FPM or PTFE <sup>1)</sup>	aluminium, graphite, stainless steel, PTFE <sup>1)</sup>	
<b>ARD 3000</b>	<ul style="list-style-type: none"> <li>• high purity water</li> <li>• formic acid</li> <li>• formaldehydes</li> <li>• additives</li> </ul>		stainless steel <sup>2)</sup>	stainless steel <sup>2)</sup>	FPM or PTFE <sup>1)</sup>	ebonite, graphite, stainless steel or PTFE <sup>1)</sup>	
<b>ARD 4000</b>	<ul style="list-style-type: none"> <li>• hydrochloric acid</li> <li>• sulphuric acid</li> <li>• chlorides</li> </ul>		PTFE, with metallic housing shell	PTFE/Tantal	FFKM	PTFE	
<b>Vane Wheel Meters</b>							
<b>AMD 3000</b>	<ul style="list-style-type: none"> <li>• high purity water</li> <li>• solvents</li> </ul>		stainless steel <sup>2)</sup>	stainless steel <sup>2)</sup>	PTFE		PTFE (graphite as a special version)
<b>PMD</b>	<ul style="list-style-type: none"> <li>• especially suitable for water up to 90°C.</li> </ul>	brass		plastic PPO	ethylene-propylene		plastic and synthetic ruby

1) special versions with other materials available on request  
2) stainless steel: resistant against corrosion and acids



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