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# DOMINO: Flow Measurement, Batching, Filling

Industry

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
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VD 5-110 e 01.2001

# Domino: Technology to ...

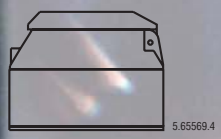
**Meter Ancillaries**
- display in volumetric units (litre or m3), special version with display in US-Gallons available
- with pulser, roller counter or for batching devices

**RW**
Roller counter
- local totalization

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

**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

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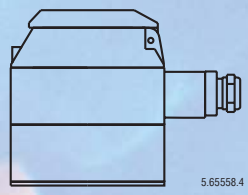
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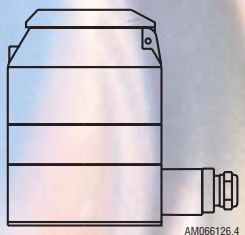
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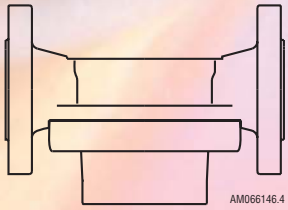
**Measuring Units**
- different measuring principles (ARD, AMD and PMD)
- various materials according to the meter type (stainless steel, cast iron, brass, PTFE plastics)
- flanges according to DIN (in general also available with ANSI or JIS borings)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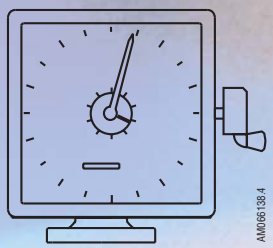
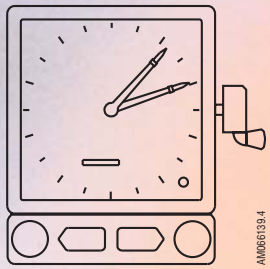
**ARD Ring Piston Meters for chemical liquids**

| | |
|---|---|
| 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

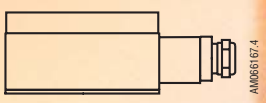


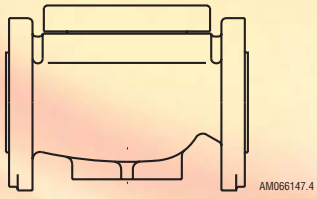




**Electronic batching control**
Combination of INA pulser with any external batching control.

**Meter Ancillaries GTAS**
Linking gear unit for attachment of AS or ASP batching devices

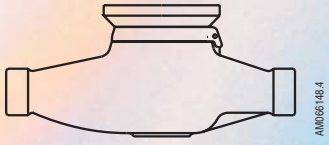

**Meter Ancillaries INA**
Pulser for electronical batching units




**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 |
|---|---|---|---|---|---|---|---|
| Ring Piston Meters | | | | | | | |
| **ARD 1000** | • paints<br>• varnishes<br>• mineral oils<br>• solvents<br>• molasses | cast brass | cast iron | brass/PPS (130°C.), brass/PTFE (180°C.) | FPM [1] | aluminium, ebonite, graphite, PTFE [1] | |
| **ARD 2000** | • caustic soda (sodium hydroxide)<br>• vegetable oils<br>• animal fats | | cast iron | stainless steel [2] | FPM or PTFE [1] | aluminium, graphite, stainless steel, PTFE [1] | |
| **ARD 3000** | • high purity water<br>• formic acid<br>• formaldehydes<br>• additives | | stainless steel [2] | stainless steel [2] | FPM or PTFE [1] | ebonite, graphite, stainless steel or PTFE [1] | |
| **ARD 4000** | • hydrochloric acid<br>• sulphuric acid<br>• chlorides | | PTFE, with metallic housing shell | PTFE/Tantal | FFKM | PTFE | |
| Vane Wheel Meters | | | | | | | |
| **AMD 3000** | • high purity water<br>• solvents | | stainless steel [2] | stainless steel [2] | PTFE | | PTFE (graphite as a special version) |
| **PMD** | • especially suitable for water up to 90°C. | 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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A1 - 01.2001 - Art. Nr. 11448

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