ENGLISH EDITION

ARAMAK

INDUSTRIAL INSTRUMENTATION

PRODUCT CATALOGUE

INDUSTRIAL MEASUREMENT & PROCESS INSTRUMENTATION

Precision measurement solutions across industries.

01 LEVEL

02 PRESSURE

03 FLOW

04 TEMPERATURE

05 METERING

06 GASKETS

ENGINEERED FOR INDUSTRY

- Power Generation
- Water & Wastewater
- Food Processing
- Mining & Minerals
- Oil & Gas
- Petrochemical



FROM DESIGN TO MANUFACTURE.

ARAMAK designs and manufactures industrial measurement instrumentation. Its product activities include flow elements, level gauges and transmitters, diaphragm seals, temperature sensors and thermowells.

01

DESIGN & ENGINEERING

Product design, equipment drafting and research & development.

02

MANUFACTURING

Machining, CNC operations, welding and assembly.

03

INDUSTRIAL APPLICATIONS

Power generation; water & wastewater; food processing; mining & minerals; oil & gas; petrochemical.

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PRODUCT CATALOGUE

Industrial measurement and process instrumentation.

PRODUCT FAMILIES

- Level
- Pressure
- Flow
- Temperature
- Metering
- Gaskets

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About ARAMAK

Built around measurement.

ARAMAK designs and manufactures industrial measurement instrumentation. Formal operations began in 2018, following earlier work on interfaces connecting chemical-engineering laboratory equipment with installed instrumentation and control systems.

The product portfolio brings together flow elements, level gauges, switches and transmitters, diaphragm seals, temperature sensors and thermowells, metering systems and spiral wound gaskets.

01 ENGINEERING

Product design, equipment drafting and research / development.

02 MANUFACTURING

Machining, CNC operations, welding and assembly activities reflected in the supplied company material.

03 ACROSS INDUSTRIES

The catalogue includes power generation, water and wastewater, food processing, mining and minerals, oil and gas, and petrochemical applications, as confirmed by ARAMAK.

ARAMAK

PRODUCT CATALOGUE

Industrial measurement and process instrumentation.

PRODUCT FAMILIES

- Level
- Pressure
- Flow
- Temperature
- Metering
- Gaskets

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Six families. One catalogue.

01 **LEVEL MEASUREMENT** — Gauges, switches & transmitters — 06

02 **PRESSURE MEASUREMENT** — Diaphragm seals & instrument accessories — 13

03 **FLOW MEASUREMENT** — Primary elements, indication & switches — 21

04 **TEMPERATURE MEASUREMENT** — Sensors & thermowells — 28

05 **METERING SYSTEMS** — Metering skids & prover systems — 34

06 **GASKETS** — Spiral wound gaskets — 36

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PRODUCT CATALOGUE

Industrial measurement and process instrumentation.

PRODUCT FAMILIES

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- Flow
- Temperature
- Metering
- Gaskets

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Find your product

Content	Page
LEVEL MEASUREMENT	
Displacer Level Transmitter	7
Displacer Level Switch	7
Magnetic Level Gauge	8
Top-Mounted Magnetic Level Gauge	8
Plastic Magnetic Level Gauge	9
Reflex Level Gauge	9
Transparent Level Gauge	10
Float Level Switch	10
Reed-Chain Level Transmitter	11
Rope Level Gauge	11
Tank Sight View Glass	12
External Chamber	12
PRESSURE MEASUREMENT	
Flat / Flanged Diaphragm Seal	14
HPD / High Pressure Diaphragm	14
Extended Diaphragm Seal	15
Wafer Diaphragm Seal	15
Internal Diaphragm Seal	16
PVC Diaphragm Seal	16
Gold-Coated Diaphragm Seal	17
Capillary Systems	17
Flushing Ring	18
Seal Pot	18
Pressure Gauge Siphon / Pigtail	19
Pressure Snubber	19
Cooling Element	20
Milibar Diaphragm	20
FLOW MEASUREMENT	
Orifice Plate & Flange Assembly	22
Restriction Orifice	22
Wafer Type Orifice	23
Venturi Tube	23
Pitot Tube	24
Meter Run	24
Flow Nozzle	25
Sight Flow Indicator	25
Paddle Flow Switch	26
TEMPERATURE MEASUREMENT	
RTD Temperature Sensor	29
Thermocouple	29
Flanged Thermowell	30
Threaded Thermowell	30
Welded Thermowell	31
Flanged Collar Thermowell	31
Sanitary Thermowell	32
METERING SYSTEMS	
Metering Skid	35
Prover System	35
GASKETS	
Spiral Wound Gaskets	37

LEVEL MEASUREMENT

Local indication, switching and transmission solutions for industrial process applications.

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PRODUCT CATALOGUE

Industrial measurement and process instrumentation.

PRODUCT FAMILIES

- Level
- Pressure
- Flow
- Temperature
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LEVEL MEASUREMENT

L06 Displacer Level Transmitter



Continuous level measurement uses the change in buoyancy force on an immersed displacer. In the hydraulic DP arrangement, a mechanical linkage transfers this force to an OEM differential-pressure transmitter.

TECHNICAL SPECIFICATIONS	
Measurement principle	Buoyancy / displacer
Force transfer	Tensile chain / linkage
Dead-weight compensation	Spring preload
Signal conversion	Hydraulic coupling to an OEM DP transmitter
Output	4–20 mA / HART
Process dependency	Liquid density / specific gravity
Installation	HP / LP connections follow the hydraulic arrangement
Calibration	Zero, span and rising / falling level response

Applications: Continuous level measurement in separators, condensate drums, knock-out pots, flash vessels and storage vessels.

Options: Displacer geometry, wetted material, connection and OEM transmitter are matched to the process. Density changes affect the level relationship.

Displacer Level Transmitter | ARAMAK

L07 Displacer Level Switch



A displacer-operated switch detects level changes through the change in buoyancy force acting on a suspended displacer.

TECHNICAL SPECIFICATIONS	
Detection principle	Buoyancy acting on a displacer
Function	Point-level switching
Mechanical assembly	Displacer and force-transfer linkage
Setpoint basis	Displacer position and process-fluid density

Applications: Discrete level detection in tanks and vessels.

Options: Chamber, linkage and switch-module arrangements are selected together for the required switching duty.

ARAMAK website | Level

LEVEL
MEASUREMENT

Level indication and process measurement.

SERVING KEY INDUSTRIES

- Power Generation
- Water & Wastewater
- Food Industries
- Mining & Minerals
- Oil & Gas
- Petrochemicals

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LEVEL MEASUREMENT

L01 Magnetic Level Gauge



A magnetic float in an external bypass chamber follows the vessel liquid level and drives a local indicator without contact between the indicator and process fluid.

TECHNICAL SPECIFICATIONS	
Measurement principle	Magnetic float / external local indicator
Mounting	Side-mounted bypass chamber
Measuring length	Up to 5.5 m; longer lengths in two sections
Chamber material	Stainless steel 1.4571
Flanged connections	DN15–DN80 / ½–3 in
Transducer accuracy	±10 mm
Remote indication	Optional 4–20 mA / HART
Level alarms	Optional high / low contacts

Applications: Local indication on storage tanks, separators, flash drums, surge tanks and feedwater equipment.

Options: Economical and standard constructions; optional transmitter, high / low contacts and radar-transmitter arrangement. Select the float and pressure boundary for the actual liquid density and combined pressure–temperature duty.

Magnetic Level Gauge | ARAMAK

L02 Top-Mounted Magnetic Level Gauge



Top-mounted magnetic level indication for tanks where the instrument enters through a roof nozzle. A float and stem or magnetic coupling transfer liquid-level movement to the local indicator.

TECHNICAL SPECIFICATIONS	
Mounting	Tank roof / top nozzle
Measuring length	Up to 5.5 m
Material	Stainless steel 316
Flanged connections	DN10–DN200 / ½–8 in
Gauge accuracy	±10 mm
Transducer accuracy	±1 cm
Remote output	Optional 4–20 mA
Switching	Optional level switch

Applications: Liquid-level indication on storage tanks, including underground tanks with suitable top access.

Options: Transmitter and level-switch options. Insertion length, nozzle opening and clear float travel must suit the vessel geometry.

Top-Mounted Magnetic Level Gauge | ARAMAK

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Level indication and process measurement.

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LEVEL MEASUREMENT

L03 Plastic Magnetic Level Gauge



A side-mounted plastic bypass chamber contains a magnetic float that follows liquid level and operates an external indicator.

TECHNICAL SPECIFICATIONS	
Chamber materials	PP / PVC / PVDF
Measuring length	Up to 4 m
Flanged connections	DN20–DN50 / ¾–2 in
Maximum pressure	Up to 16 bar, according to material and design
Maximum temperature	Up to 90 °C, according to material and design
Transducer accuracy	±10 mm
Remote output	Optional 4–20 mA
Level alarms	Optional switches

Applications: Continuous local indication and monitoring of liquid levels in tanks where a compatible plastic chamber is required.

Options: Transmitter and high / low level-switch options. Pressure and temperature maxima are not simultaneous ratings; select PP, PVC or PVDF for the fluid and operating duty.

Plastic Magnetic Level Gauge | ARAMAK

L04 Reflex Level Gauge



A direct-reading gauge uses prismatic reflex glass to distinguish liquid and vapour by their different optical appearance.

TECHNICAL SPECIFICATIONS	
Gauge type	Reflex / prismatic glass
Body materials	Forged steel / stainless steel
Special material options	Duplex / Monel / Inconel / Hastelloy / titanium
Connection forms	Flanged / screwed / weldable
Visible length	Continuous or interrupted sections
Isolation valves	Ball-check shut-off; flanged or union connection
Accessories	Vent / drain, scale, heating and frost protection

Applications: Local liquid-level indication where liquid / vapour contrast is required. Reflex viewing is unsuitable for observing liquid colour or a liquid–liquid interface.

Options: Isolation valves, vent / drain and heating options. Select the glass and seals for the fluid; services requiring protective mica shields need an appropriate alternative gauge construction.

Reflex Level Gauge | ARAMAK

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MEASUREMENT

Level indication and process measurement.

SERVING KEY INDUSTRIES

- Power Generation
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LEVEL MEASUREMENT

L05 Transparent Level Gauge



TECHNICAL SPECIFICATIONS	
Gauge type	Transparent / opposing glass sections
Body materials	Forged steel / stainless steel
Special material options	Duplex / Monel / Inconel / Hastelloy / titanium
Connection forms	Flanged / screwed / weldable
Visible length	Continuous or interrupted sections
Isolation valves	Ball-check shut-off; flanged or union connection
Illumination	Optional illuminator
Protection	Mica shields where specified for the service

Opposing transparent glass sections provide direct viewing of liquid level and appearance. Optional illumination improves visibility through the gauge.

Applications: Local level and liquid-condition observation on tanks and process vessels, including illuminated viewing.

Options: Isolation valves, vent / drain, scale, heating, frost protection and illumination. Glass, shields and gaskets are selected for the process fluid and operating duty.

Transparent Level Gauge | ARAMAK

L08 Float Level Switch



TECHNICAL SPECIFICATIONS	
Function	Point-level switching
Contacts	1 or 2 reed switches
Material families	Carbon steel / stainless steel
Assembly forms	Flanged / external chamber
Minimum liquid density	0.65 g / mL, subject to float selection
Process connection	Matched to the tank connection

A magnetic float operates reed contacts to provide discrete liquid-level signals. Flanged and external-chamber assemblies support different vessel installations.

Applications: High / low level detection and alarm functions in tanks and vessels.

Options: Select the contact arrangement, setpoints, mounting and float for the liquid and process duty.

Float Level Switch | ARAMAK

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LEVEL

MEASUREMENT

Level indication and process measurement.

SERVING KEY INDUSTRIES

- Power Generation
- Water & Wastewater
- Food Industries
- Mining & Minerals
- Oil & Gas
- Petrochemicals

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LEVEL MEASUREMENT

L09 Reed-Chain Level Transmitter



A magnetic float actuates a reed / resistor chain to produce a resistance signal corresponding to liquid level. A compatible transmitter converts this signal for remote indication.

TECHNICAL SPECIFICATIONS	
Sensor principle	Magnetically actuated resistance chain
Signal conversion	Resistance to 4–20 mA / HART via transmitter
Measuring length	Up to 5, 000 mm for the direct-mounted family
Material options	Stainless steel / PVC / PP / PVDF
Threaded connections	G ⅜–G 2 / ⅜–2 in NPT
Flanged connections	DN40–DN125/1½–4 in
Connection heads	Aluminium / PP / stainless steel
Optional function	Liquid–liquid interface measurement

Applications: Continuous remote level indication using a magnetic float, including compatible tank and bypass-gauge installations.

Options: Listed length, materials, heads and process connections describe the direct-mounted family; external sensing arrangements differ. Active length, float and transmitter are selected together.

Reed-Chain Level Transmitter | ARAMAK

L10 Rope Level Gauge



A float follows the tank liquid level and moves a rope over pulleys. A pointer on an external gauge board provides a direct level reading.

TECHNICAL SPECIFICATIONS	
Indication	Float-actuated pointer and gauge board
Maximum range	20 m with a selected guided float
Gauge-board resolution	10 mm
300 mm guided float	0–20 m; ±5 mm at SG 1
200 mm guided float	0–10 m; ±10 mm at SG 1
100 mm unguided float	0–3 m; ±25 mm without / ±45 mm with liquid seal at SG 1
Float cable / guide wires	Stainless steel 316
Standard service	Clean, clear, non-corrosive liquids

Applications: Local level indication on storage and water tanks. Material and seal selection must match the stored liquid.

Options: Liquid-seal and operation-checker assemblies. The 100 mm unguided float requires a perforated stilling pipe of at least 150 mm diameter.

Rope Level Gauge | ARAMAK

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LEVEL
MEASUREMENT

Level indication and process measurement.

SERVING KEY INDUSTRIES

- Power Generation
- Water & Wastewater
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- Petrochemicals

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LEVEL MEASUREMENT

L11 Tank Sight View Glass



A tank sight-view assembly provides a sealed window for direct observation of vessel contents and process behaviour.

TECHNICAL SPECIFICATIONS	
Installation	Weld-on / flanged or bolted
Design families	DIN 28120 / DIN 28121 arrangements
Typical nominal sizes	Approximately DN40–DN200; model-dependent
Glass options	Borosilicate / soda-lime / special glass
Metallic components	Carbon steel / stainless steel, including 304L and 316L
Gasket options	PTFE / graphite / silicone / Viton
Cleaning	Optional internal wiper / scraper
Visibility	Optional illumination

Applications: Observation of liquid condition, mixing, colour, foam and deposits in tanks, pressure vessels, reactors, mixers and separators.

Options: Select the glass, gasket and connection for the process. Larger custom sizes, wipers and illumination are available for suitable designs.

Tank Sight View Glass | ARAMAK

L12 External Chamber



An external chamber connects a level instrument to a vessel through a separate process chamber. Side–side and side–bottom arrangements suit different nozzle layouts.

TECHNICAL SPECIFICATIONS	
Length	200–7, 000 mm
Body materials	Carbon steel / stainless steel
Operating pressure range	−1 to 150 barg, according to selected design
Operating temperature range	−60 to +400 °C, according to selected design
Process connections	½–4 in ANSI / DN15–DN100
Instrument connections	2/3 / 4 in
Connection layouts	Side–side / side–bottom

Applications: External mounting of level instruments on tanks and process vessels.

Options: Chamber length, instrument connection and vessel-nozzle arrangement are matched to the installation. Pressure and temperature limits depend on material and construction and are not simultaneous ratings.

External Chamber | ARAMAK

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LEVEL
MEASUREMENT

Level indication and process measurement.

SERVING KEY INDUSTRIES

- Power Generation
- Water & Wastewater
- Food Industries
- Mining & Minerals
- Oil & Gas
- Petrochemicals

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PRESSURE MEASUREMENT

Diaphragm seals and instrument accessories, organized by construction, process connection and application.

ARAMAK

PRODUCT CATALOGUE

Industrial measurement and process instrumentation.

PRODUCT FAMILIES

Level
Pressure
Flow
Temperature
Metering
Gaskets

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PRESSURE MEASUREMENT

P01 Flat / Flanged Diaphragm Seal



Flanged pressure-instrument seal with a flush diaphragm for pressure, differential-pressure, level and flow measurement. The diaphragm separates the process medium from the instrument's sealed fill system.

TECHNICAL SPECIFICATIONS	
Design	Flat / flush flanged diaphragm seal — FFD
Flange standards / facings	ASME B16.5 RF / RTJ / FF; EN 1092-1; API 6A / ISO 10423
Nominal size options	DN25 / DN40 / DN50 / DN65 / DN80 / DN90 / DN100
Flange class options	Class 150 / 300 / 600 / 900 / 1500 / 2500
PN options	PN10 / PN16 / PN25 / PN40 / PN63 / PN100 / PN160
Diaphragm material options	316/316L stainless steel, Alloy 625, Alloy C276, titanium, tantalum, Nickel 200
Flange material options	316/316L, 310 or 321 stainless steel; duplex; Alloy 400 / 625 / 800 / C276
Mounting	Direct or remote capillary
Surface treatment options	Gold coating: 25 or 40 µm; PTFE or ceramic coating

Applications: Pressure, DP, level and flow measurement where a flush process diaphragm and compatible wetted materials are required.

Options: Flushing rings / flanges, cooling arrangements, lifting handles and material documentation. Size, class, material and temperature capability are selected together for the complete assembly.

Flat / Flanged Diaphragm Seal | ARAMAK

P02 HPD - High Pressure Diaphragm



HPD — High Pressure Diaphragm — provides process isolation for pressure instruments using a diaphragm and sealed fill system. Its housing and connection selections form a separate product family from Flat / FFD.

TECHNICAL SPECIFICATIONS	
Designation	HPD — High Pressure Diaphragm
Function	Isolation of pressure instruments from process media
Pressure transmission	Flexible diaphragm and sealed fill fluid
Process-side selections	Process connection, lower housing and diaphragm material
Instrument-side selections	Upper housing, instrument connection and flushing arrangement

Applications: Process-isolated pressure measurement with materials and connections matched to the service.

Options: Housing materials, diaphragm material, process connection, instrument connection and flushing arrangement are selected as one compatible assembly.

ARAMAK website | Pressure

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PRESSURE

MEASUREMENT

Diaphragm seals and pressure interfaces.

SERVING KEY INDUSTRIES

- Power Generation
- Water & Wastewater
- Food Industries
- Mining & Minerals
- Oil & Gas
- Petrochemicals

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PRESSURE MEASUREMENT

P03 Extended Diaphragm Seal



Extended diaphragm seal for pressure measurement through a vessel nozzle or stand-off. The projecting diaphragm arrangement accommodates thick walls and insulation while isolating the instrument from the process.

TECHNICAL SPECIFICATIONS	
Construction	Flanged seal with welded diaphragm
Extension geometry	Length and diameter selected for the nozzle and installation
Material selection	Extension, diaphragm and other wetted parts selected for the medium
Surface treatment	Application-specific diaphragm and extension coatings
Pressure transmission	Sealed system fill fluid

Applications: Aggressive, viscous, crystallizing or hot media; pipelines and vessels with thick walls or insulation.

Options: Extension length / diameter, flange size / class, extension material and diaphragm material.

Extended Diaphragm Seal | ARAMAK

P04 Wafer Diaphragm Seal



Wafer-style diaphragm seal for process pressure measurement in compact flange-stack installations. A welded diaphragm and sealed fill fluid isolate the pressure instrument from demanding process media.

TECHNICAL SPECIFICATIONS	
Installation	Wafer-style process connection
Diaphragm	Welded construction
Pressure transmission	Sealed fill-fluid system
Wetted parts	Materials selected for chemical compatibility
Surface treatment	Application-specific coating options

Applications: Aggressive, viscous, crystallizing or hot media; installations requiring flushing access.

Options: Flange size / class, diaphragm material, body material and surface coating.

Wafer Diaphragm Seal | ARAMAK

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PRESSURE

MEASUREMENT

Diaphragm seals and pressure interfaces.

SERVING KEY INDUSTRIES

- Power Generation
- Water & Wastewater
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- Petrochemicals

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PRESSURE MEASUREMENT

P05 Internal Diaphragm Seal



Internal diaphragm seal for pressure-instrument isolation where the process connection cannot accommodate a large external diaphragm. The welded arrangement provides a compact process interface.

TECHNICAL SPECIFICATIONS	
Design	Internal diaphragm arrangement
Construction	Flange with welded diaphragm
Wetted parts	Compatible material selected for all process-wetted components
Application feature	Suitable for restricted connection space

Applications: Pressure measurement where a larger diaphragm connection cannot be installed.

Options: Connection geometry and wetted materials matched to the process and available installation space.

Internal Diaphragm Seal | ARAMAK

P06 PVC Diaphragm Seal



Plastic diaphragm seal for isolating pressure instruments from corrosive chemical media. Pressure is transmitted through a PTFE diaphragm and a sealed fill-fluid system.

TECHNICAL SPECIFICATIONS	
Process connection	1/4 in or 1/2 in threaded
Lower body	PVC
Upper body	PP / PA6
Diaphragm	PTFE
Working pressure	10 barg
Working temperature	10 to 80 °C
Mounting	Direct or flexible capillary

Applications: Chemical manufacturing, electroplating, water supply and wastewater treatment.

Options: Thread size, compatible polymer combination and mounting arrangement selected for the process medium. Pressure and temperature limits depend on the selected construction and are not simultaneous maximum ratings.

PVC Diaphragm Seal | ARAMAK

PRESSURE MEASUREMENT

P07 Gold-Coated Diaphragm Seal



Gold-coated diaphragm option for process-isolated pressure measurement. Coating thickness and base material are selected for the service; the assembly example below illustrates one completed installation.

TECHNICAL SPECIFICATIONS	
Surface treatment	Gold-coated diaphragm
FFD coating options	25 µm / 40 µm for chemical resistance
Project example	2025 completed installation
Example flange	2 in, Class 300, RF
Example instrument connection	1/4 in NPT + capillary
Example diaphragm	Gold-coated SS316L
Example flange material	SS316L

Applications: Pressure-instrument isolation in services requiring a gold-coated diaphragm.

Options: Gold coating, diaphragm material, process connection and instrument mounting selected for the service. Example project dimensions and materials describe that assembly only.

Gold-Coated Diaphragm Seal | ARAMAK

P08 Capillary Systems

Armoured capillary connection for remote mounting of pressure instruments with diaphragm seals. The sealed fill-fluid path transmits process pressure while allowing separation between the seal and instrument.

TECHNICAL SPECIFICATIONS	
Arrangement	Remote diaphragm-seal connection
Tube material — FFD system	TP316 stainless steel
Armour — FFD system	AISI 304; AISI 316 option
Outer sleeve option	PVC
FFD length options	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 10 m
Seal-side routing	Axial or radial
Installation	Independent support and protected routing

Applications: Remote pressure-instrument installation where instrument position or process temperature favours a capillary-connected seal.

Options: Capillary length, armour, sleeve, routing and fill fluid selected for the complete seal / instrument system. Elevation and temperature effects are included in system selection.

Capillary Systems | ARAMAK

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PRESSURE
MEASUREMENT

Diaphragm seals and pressure interfaces.

SERVING KEY INDUSTRIES

- Power Generation
- Water & Wastewater
- Food Industries
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PRESSURE MEASUREMENT

P09 Flushing Ring



Flushing ring installed between a diaphragm seal and process flange to provide flushing, venting, calibration or drain access without disturbing the seal assembly.

TECHNICAL SPECIFICATIONS	
Installation position	Between diaphragm seal and process connection
Functions	Flushing / venting / calibration / draining
Interface selection	Flange size / class, facing and wetted material
Port selection	Size and orientation matched to the hook-up
Gasket arrangement	Specified gaskets on both faces
Port closures	Rated valves or plugs

Applications: Diaphragm-seal installations requiring deposit removal, venting, calibration access or draining.

Options: Flushing / drain ports, rated plugs or valves and flange-compatible geometry. The complete assembly is limited by its lowest-rated component.

ARAMAK website | Pressure

P10 Seal Pot



Seal or condensate pot for pressure and differential-pressure instrument impulse lines. The vessel maintains a reference liquid or condensate volume for the measurement arrangement.

TECHNICAL SPECIFICATIONS	
Function	Reference-liquid / condensate volume in impulse lines
Mounting	Vertical at the specified elevation
Connections	Process / instrument / fill / vent / drain as required by the hook-up
Mechanical support	Independent rigid support
Selection inputs	Volume, material, pressure / temperature and connection arrangement
Measurement consideration	Elevation and liquid head affect transmitter zero

Applications: Steam / condensate reference legs and pressure or DP measurement hook-ups requiring a controlled liquid inventory.

Options: Vessel volume, material, connection arrangement, valves / plugs and thermal protection selected for the duty.

ARAMAK website | Pressure

PRESSURE
MEASUREMENT

Diaphragm seals and pressure interfaces.

SERVING KEY INDUSTRIES

- Power Generation
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PRESSURE MEASUREMENT

P11 Pressure Gauge Siphon / Pigtail



Pressure gauge siphon for hot process services. A condensate-filled leg separates the pressure instrument from direct exposure to hot media.

TECHNICAL SPECIFICATIONS	
Function	Condensate-filled thermal barrier for pressure instruments
Form / dimensional reference	U / D forms; DIN 16282
Process connection	Threaded or welded
Tube size options	1/8 / 1/4 / 3/8 / 1/2 / 3/4 / 1 in
Wall schedules	40 / 80 / 160 / XXS
Material options	A106 / B carbon steel; T304; T316/316L; special alloys
Temperature capability	Up to 550 °C, dependent on construction and duty
Nominal-pressure capability	Up to 420 bar, dependent on construction and temperature

Applications: Steam and high-temperature pressure-measurement installations.

Options: Tube size, wall schedule, material and connection selected together for the duty. Maximum pressure and maximum temperature are separate limits and are not a simultaneous operating point.

Pressure Gauge Siphon / Pigtail | ARAMAK

P12 Pressure Snubber



Adjustable snubber for damping pressure pulsations and spikes before they reach a pressure instrument.

TECHNICAL SPECIFICATIONS	
Function	Pressure-pulsation damping
Adjustment	Body-mounted adjustment screw
Maximum temperature	120 °C
Nominal pressure	Up to 400 bar

Applications: Compressors, steam engines, hydraulic presses, tensile-test machines and other pulsating-pressure applications.

Options: Damping adjustment matched to pulsation severity and the required instrument response. Pressure and temperature limits depend on the selected construction and are not simultaneous maximum ratings.

Pressure Snubber | ARAMAK

PRESSURE MEASUREMENT

P13 Cooling Element



Cooling element installed between a hot process connection and a pressure instrument to reduce heat transfer to the instrument.

TECHNICAL SPECIFICATIONS	
Function	Temperature reduction for pressure measurement
Working temperature range	−40 to +250 °C
Working pressure	Up to 600 bar
Connection sizes	1/4 in / 1/2 in
Thread options	G / NPT

Applications: Pressure measurement in services where the process temperature exceeds the instrument's preferred operating temperature.

Options: Connection size and thread matched to the installation. Final selection considers the complete pressure-temperature duty and the instrument temperature limit. Pressure and temperature limits depend on the selected construction and are not simultaneous maximum ratings.

Cooling Element | ARAMAK

P14 Milibar Diaphragm



Milibar Diaphragm is part of ARAMAK's diaphragm-seal range for pressure-instrument isolation. The diaphragm separates process media from the instrument's sealed fill system.

TECHNICAL SPECIFICATIONS	
Product	Milibar Diaphragm
Function	Process isolation for pressure instruments
Pressure transmission	Flexible diaphragm and sealed fill fluid
Selection considerations	Instrument range, process media, temperature and mounting arrangement

Applications: Process-isolated pressure measurement with the diaphragm assembly selected to suit the instrument and duty.

Options: Assembly selection considers the process connection, wetted materials, fill fluid and installation geometry.

Milibar Diaphragm | ARAMAK

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PRESSURE

MEASUREMENT

Diaphragm seals and pressure interfaces.

SERVING KEY INDUSTRIES

- Power Generation
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- Petrochemicals

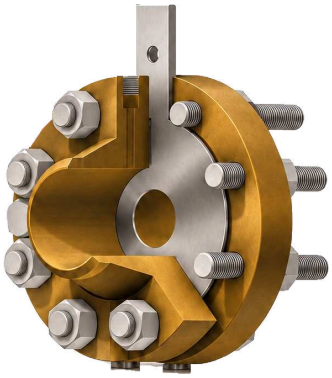
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FLOW MEASUREMENT

Primary flow elements, visual indication and flow switching for industrial process service.

FLOW MEASUREMENT

F01 Orifice Plate & Flange Assembly



Differential-pressure primary flow element that creates a controlled restriction in the pipe. The pressure difference across the plate is used with process data and the approved calculation to determine flow.

TECHNICAL SPECIFICATIONS	
Measurement principle	Differential pressure across an orifice plate
Connection sizes	DN50–DN600
Plate materials	Stainless steel, steel, Hastelloy C, titanium, Monel or tantalum
Plate forms	Square edge / quadrant / conical entrance / segmental
Assembly families	RF / RTJ / wafer
Pressure tapping	Flange / corner / radius / pipe taps
Sizing references	ISO 5167 / ASME MFC-3M / ASME PTC 19.5
Sizing inputs	Flow, fluid properties, pipe bore, bore diameter and beta ratio

Applications: Oil & gas, petrochemical, power, water / wastewater, mining, chemical and other industrial flow-measurement services. Restriction designs are also used where a defined pressure drop or flow limitation is required.

Options: RF, RTJ, Wafer and holder arrangements; metering or restriction duty; materials and tapping arrangement to suit project conditions.

Orifice Plate & Flange Assembly | ARAMAK

F02 Restriction Orifice



Restriction orifices reduce pressure or limit flow. Multi-stage assemblies distribute the pressure reduction to address cavitation, flashing, noise and velocity.

TECHNICAL SPECIFICATIONS	
Function	Permanent pressure reduction / flow limitation
Construction	Single-stage or multi-stage assembly
Multi-stage design	Distributes pressure reduction between stages
Design considerations	Cavitation / flashing / noise / velocity
Engineering definition	Bore sizes, plate thickness and stage spacing from process calculation
Assembly controls	Marked flow direction, stage sequence and concentric flow passage

Applications: Pressure letdown and flow limitation in process piping.

Options: Single- or multi-stage arrangement, material, bore pattern, plate thickness and connection geometry matched to the process duty.

ARAMAK website | Flow

ARAMAK

FLOW

MEASUREMENT

Primary elements and visual flow indication.

SERVING KEY INDUSTRIES

- Power Generation
- Water & Wastewater
- Food Industries
- Mining & Minerals
- Oil & Gas
- Petrochemicals

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FLOW MEASUREMENT

F03 Wafer Type Orifice



Compact differential-pressure primary element installed in wafer form between mating flanges.

TECHNICAL SPECIFICATIONS	
Measurement principle	Differential pressure
Mounting	Wafer assembly between pipeline flanges
Manufacturing sizes	2–24 in
Material options	Carbon steel / stainless steel / high alloys
Flange facing options	RF / FF / RTJ
Beta-ratio selection range	0.10–0.75, subject to sizing and applicable standard limits
Sizing references	ISO 5167-2 / ASME MFC-3M

Applications: DP flow measurement where a compact wafer arrangement is preferred.

Options: Material, facing and bore / sizing are selected for the actual process and calculation basis.

Wafer Type Orifice | ARAMAK

F04 Venturi Tube



Differential-pressure flow element with a convergent inlet, throat and diffuser. The geometry produces measurable differential pressure with comparatively low permanent pressure loss.

TECHNICAL SPECIFICATIONS	
Measurement principle	Differential pressure through convergent section, throat and diffuser
Construction	Machined or welded
End connections	Butt-weld / flanged
Design codes	WW: welded / weld end; WF: welded / flanged; MW: machined / weld end; MF: machined / flanged
Materials	SS316 / SS304 / carbon steel
Tapping connections	G or NPT threaded; flanged options
Diffuser alternatives	7° ±1° low-loss / 15° ±1° classical
Instrumentation	Optional DP transmitter, RTD and pressure / temperature compensation

Applications: Liquids, gases and saturated steam; commonly used where low permanent pressure loss, robust construction and long service life are important, including power and hydrocarbon services.

Options: Truncated or full diffuser, machined / welded construction, end connection, tapping arrangement, transmitter and compensation accessories.

Venturi Tube | ARAMAK

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FLOW
MEASUREMENT

Primary elements and visual flow indication.

SERVING KEY INDUSTRIES

- Power Generation
- Water & Wastewater
- Food Industries
- Mining & Minerals
- Oil & Gas
- Petrochemicals

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FLOW MEASUREMENT

F05 Pitot Tube



Differential-pressure velocity sensor using the difference between total (stagnation) pressure and static pressure. Averaging designs sample the velocity profile through multiple sensing points.

TECHNICAL SPECIFICATIONS	
Measurement principle	Averaging differential-pressure probe
Service	Liquids / gases / steam
Line-size family	3–480 in (DN80–DN12000); probe / support engineered to pipe and flow
Design alternatives	Fixed or retractable; with or without end support
Probe materials	SS316 / SS304 / Monel 400 / Alloy C276 / titanium
Connections	G or NPT threaded / flanged
Sealing option	PTFE, subject to process compatibility
Transmitter options	4–20 mA / HART; optional fieldbus interfaces

Applications: Liquids, gases and steam; particularly attractive for large pipe diameters and services where low permanent pressure loss and relatively simple installation are important.

Options: Probe length and support, isolation valve, manifold, transmitter and compensation accessories; pressurized withdrawal only with a suitably rated retrieval system and procedure.

Pitot Tube | ARAMAK

F06 Meter Run



Integrated differential-pressure metering assembly combining an orifice element, flanges and dimensionally controlled upstream / downstream pipe sections so the primary element and piping geometry are controlled as one unit.

TECHNICAL SPECIFICATIONS	
Measurement principle	Integrated differential-pressure meter run
Line-size family	1/2–2 in (DN15–DN50)
Assembly	Orifice plate, flanges and matched upstream / downstream pipe sections
Pipe material option	ASTM A106 Grade B carbon steel
Flange material option	ASTM A105 carbon steel
Orifice plate option	SS316 / SS316L
Pressure tapping	G or NPT; one or two transmitter tapping sets
End connections	Butt-weld / welding-neck / slip-on / socket-weld flanged
Instrumentation options	4–20 mA / HART transmitter; RTD and multivariable compensation

Applications: Liquids, gases and saturated steam where a compact, factory-integrated DP metering assembly is preferred and controlled pipe geometry is important for measurement performance.

Options: Alternative stainless-steel materials, flange / corner taps, RTD, multivariable transmitter, manifold and end-connection arrangements.

Meter Run | ARAMAK

FLOW MEASUREMENT

F07 Flow Nozzle



Differential-pressure primary flow element intended for demanding liquid, gas and high-pressure steam services.

TECHNICAL SPECIFICATIONS	
Measurement principle	Differential-pressure primary element
Service	Liquids / gases / high-pressure steam
Materials	Stainless steel / high alloys
Manufacturing sizes	4–24 in
Flange facings	RF / FF / RTJ
Beta-ratio selection range	0.25–0.50, subject to nozzle design and sizing

Applications: Flow measurement for liquids, gases and high-pressure steam in power, chemical / petrochemical, renewable-energy, food and water-treatment applications.

Options: Material, flange finish, beta ratio and calibration requirements according to the service.

Flow Nozzle | ARAMAK

F08 Sight Flow Indicator



An in-line sight flow indicator provides direct visual observation of process fluid through viewing windows.

TECHNICAL SPECIFICATIONS	
Function	Direct visual observation of fluid in a pipeline
Illustrated construction	Flanged in-line sight flow indicator
Indication	Local visual indication through viewing windows

Applications: Local visual checking of fluid condition and flow in process piping.

Options: Body, viewing element, seals and process connections selected for the fluid and installation.

ARAMAK website | Flow

FLOW
MEASUREMENT

Primary elements and visual flow indication.

SERVING KEY INDUSTRIES

- Power Generation
- Water & Wastewater
- Food Industries
- Mining & Minerals
- Oil & Gas
- Petrochemicals

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FLOW MEASUREMENT

F09 Paddle Flow Switch



Insertion-type flow switch for point detection of flow condition in horizontal or vertical process lines.

TECHNICAL SPECIFICATIONS	
Function	Paddle-operated flow / no-flow detection
Line sizes	2–60 in (DN50–DN1500)
Mounting	Horizontal / vertical, to selected orientation
Flanged connection sizes	1 1/2–4 in
Flange-class options	ASME Class 150–1500; selected assembly rating governs
Case materials	Aluminum / SS304 / SS316
Body / paddle materials	SS316L / SS304 / PVC / Alloy 625
Insertion-length options	100–1000 mm

Applications: Flow / no-flow monitoring in industrial piping, coolers and heaters; media and switch selection matched to the service.

Options: Insertion length, wetted materials, process connection and switch enclosure are selected for the application.

Paddle Flow Switch | ARAMAK

Flow inquiry guide

Inputs to resolve before a product selection is released.

01 PROCESS DATA

Fluid composition, phase, density, viscosity and temperature.

02 OPERATING DUTY

Minimum / normal / maximum flow; upstream and downstream pressure.

03 INSTALLATION

Line size, pipe dimensions, connections, available straight lengths and layout.

04 MECHANICAL REQUIREMENTS

Materials, pressure-temperature design basis and corrosion allowance where required.

05 DOCUMENTATION

Tag list, project specification, required drawing and inspection records.

This is a preparation checklist, not a new product specification. Final design and acceptance criteria must come from applicable approved product and project documentation.

ARAMAK

PRODUCT CATALOGUE

Industrial measurement and process instrumentation.

PRODUCT FAMILIES

Level
Pressure
Flow
Temperature
Metering
Gaskets

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TEMPERATURE MEASUREMENT

Industrial temperature sensors and thermowells, with configuration selected to suit the measurement duty and process connection.

TEMPERATURE MEASUREMENT

T01 RTD Temperature Sensor



Resistance temperature detector for accurate and repeatable industrial temperature measurement, typically using platinum sensing elements.

TECHNICAL SPECIFICATIONS	
Sensor principle	Resistance temperature measurement
Platinum element	Pt100: 100 Ω at 0 °C
Temperature coefficient	α = 0.00385 Ω / Ω / °C
Element selection range	−200 to +600 °C; assembly limits depend on construction
Wiring	2-wire / 3-wire / 4-wire
Element arrangement	Single / duplex
Assembly options	Connection head, terminal block, spring-loaded insert, transmitter and thermowell

Applications: Industrial temperature measurement where accuracy, stability and repeatability are important.

Options: Single / dual element, wire count, sensor diameter, sheath material, process connection and head transmitter.

RTD Temperature Sensor | ARAMAK

T02 Thermocouple



Industrial thermoelectric temperature sensor using two dissimilar conductors to generate a temperature-dependent voltage.

TECHNICAL SPECIFICATIONS	
Sensor principle	Thermoelectric voltage from dissimilar conductors
Base-metal types	K / J / E / T
Noble-metal types	B / R / S
Construction options	Compression fitting / head assembly / skin type / multipoint
Assembly components	Sensor insert, connection head and terminal block; transmitter / thermowell options
Wiring	Type-matched extension or compensating cable with correct polarity

Applications: Oil & gas, petrochemical, steel, power, water, glass, rail, polymer, cement and other high-temperature / process applications.

Options: Thermocouple type, element count, sheath, junction, insertion length, mounting and transmitter selected for the application.

Thermocouple | ARAMAK

TEMPERATURE MEASUREMENT

T03 Flanged Thermowell



TECHNICAL SPECIFICATIONS	
Process connection	Flanged
Flange-size family	DN15–DN100 / ASME 1/2–4 in
Material options	SS316L / SS304 / Monel / titanium / Alloy C276 / Inconel
Shank forms	Straight / tapered / stepped
Function	Protects sensor from process pressure, flow and corrosion
Sensor interface	Thermocouple / RTD / thermometer
Selection factors	Fluid compatibility, pressure, temperature, velocity and vibration

A flanged thermowell isolates the temperature sensor from the process and allows sensor removal while the thermowell remains installed.

Applications: General process, high-pressure, high-temperature and high-velocity temperature measurement where a replaceable sensor must be protected from the process.

Options: Material, shank geometry, bore, insertion length and process connection matched to service; wake-frequency / vibration evaluation where required.

Flanged Thermowell | ARAMAK

T04 Threaded Thermowell



TECHNICAL SPECIFICATIONS	
Process connection	Threaded
Common process threads	1/2, 3/4 and 1 in NPT
Shank forms	Straight / tapered / stepped
Function	Protects sensor from process pressure, flow and corrosion
Sensor interface	Thermocouple / RTD / thermometer
Selection factors	Fluid compatibility, pressure, temperature, velocity and vibration

A threaded thermowell isolates the temperature sensor from the process and allows sensor removal while the thermowell remains installed.

Applications: General temperature measurement where a threaded process connection is appropriate.

Options: Material, shank geometry, bore, insertion length and process connection matched to service; wake-frequency / vibration evaluation where required.

Threaded Thermowell | ARAMAK

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TEMPERATURE
MEASUREMENT

Sensors and thermowell assemblies.

SERVING KEY INDUSTRIES

- Power Generation
- Water & Wastewater
- Food Industries
- Mining & Minerals
- Oil & Gas
- Petrochemicals

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TEMPERATURE MEASUREMENT

T05 Welded Thermowell



A welded thermowell isolates the temperature sensor from the process and allows sensor removal while the thermowell remains installed.

TECHNICAL SPECIFICATIONS	
Process connection	Welded directly to pipe or vessel
Installation	Permanent welded pressure boundary; removable sensor
Function	Protects sensor from process pressure, flow and corrosion
Sensor interface	Thermocouple / RTD / thermometer
Selection factors	Fluid compatibility, pressure, temperature, velocity and vibration

Applications: Temperature measurement where a permanent welded process connection is suitable.

Options: Material, shank geometry, bore, insertion length and process connection matched to service; wake-frequency / vibration evaluation where required.

Welded Thermowell | ARAMAK

T06 Flanged Collar Thermowell



A flanged collar thermowell isolates the temperature sensor from the process and allows sensor removal while the thermowell remains installed.

TECHNICAL SPECIFICATIONS	
Process connection	Flanged collar
Flange-size family	DN15–DN100 / ASME 1/2–4 in
Material options	SS316L / SS304 / Monel / titanium / Alloy C276 / Inconel
Shank forms	Straight / tapered / stepped
Function	Protects sensor from process pressure, flow and corrosion
Sensor interface	Thermocouple / RTD / thermometer
Selection factors	Fluid compatibility, pressure, temperature, velocity and vibration

Applications: Process temperature measurement in piping / vessels including heavier-duty applications.

Options: Material, shank geometry, bore, insertion length and process connection matched to service; wake-frequency / vibration evaluation where required.

Flanged Collar Thermowell | ARAMAK

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TEMPERATURE
MEASUREMENT

Sensors and thermowell assemblies.

SERVING KEY INDUSTRIES

- Power Generation
- Water & Wastewater
- Food Industries
- Mining & Minerals
- Oil & Gas
- Petrochemicals

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TEMPERATURE MEASUREMENT

T07 Sanitary Thermowell



A sanitary thermowell isolates the temperature sensor from the process and allows sensor removal while the thermowell remains installed.

TECHNICAL SPECIFICATIONS	
Application	Sanitary / clean-process temperature measurement
Shank forms	Straight / tapered / stepped
Selection	Process connection and cleanability matched to hygienic duty
Function	Protects sensor from process pressure, flow and corrosion
Sensor interface	Thermocouple / RTD / thermometer
Selection factors	Fluid compatibility, pressure, temperature, velocity and vibration

Applications: Sanitary and process applications requiring sensor removal without directly exposing the measuring element to the process.

Options: Material, shank geometry, bore, insertion length and process connection matched to service; wake-frequency / vibration evaluation where required.

Sanitary Thermowell | ARAMAK

SERVING KEY INDUSTRIES

- Power Generation
- Water & Wastewater
- Food Industries
- Mining & Minerals
- Oil & Gas
- Petrochemicals

Temperature inquiry guide

Inputs to resolve before a product selection is released.

01 MEASUREMENT DUTY

Operating and design temperature; sensor response and accuracy requirements.

02 SENSOR

RTD / thermocouple type, element count, circuit and termination.

03 PROCESS CONNECTION

Insertion length, nozzle details, connection size and rating.

04 THERMOWELL

Materials, pressure, fluid velocity and vibration / strength review inputs.

05 ELECTRICAL INSTALLATION

Head, transmitter, cable entry and applicable area-classification requirements.

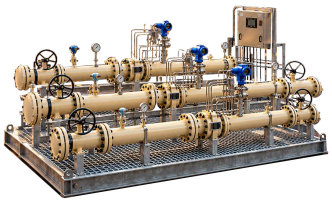
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METERING SYSTEMS

Integrated metering packages and prover-system scope, configured to the requirements of the project.

METERING SYSTEMS

M01 Metering Skid



An integrated flow-measurement package combining process piping, meters, instrumentation, controls and a supporting skid structure.

TECHNICAL SPECIFICATIONS	
System	Integrated flow-measurement package
Process scope	Meter runs, piping, structure and isolation / control valves
Instrument options	Pressure / temperature instruments and analyzers
Control options	Flow computer / panels / communication interfaces
Integration	Project P&ID, battery limits and cause-and-effect basis
Proving interface	Proving connections where included in package scope

Applications: Industrial flow-measurement packages for process plants, pipelines and terminals.

Options: Meter runs, filtration, valves, analyzers, flow computers, panels and proving connections selected for the package.

ARAMAK website | Metering

M02 Prover System

A prover system supports meter proving within a metering installation.

PRODUCT SCOPE	
Function	Meter proving within metering installations

Applications: Metering-system proving and verification.

ARAMAK website | Metering

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METERING

SYSTEMS

Integrated measurement and proving systems.

SERVING KEY INDUSTRIES

- Power Generation
- Water & Wastewater
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- Mining & Minerals
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- Petrochemicals

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GASKETS

Spiral wound sealing products for industrial flange joints.

GASKETS & SEALING

G01 Spiral Wound Gaskets



Spiral wound gaskets use alternating formed metal winding and filler to seal industrial flange joints, with inner and / or outer rings to suit the connection.

TECHNICAL SPECIFICATIONS	
Construction	Semi-metallic spiral winding with non-metallic filler
Ring arrangements	Inner and / or outer guide ring
Selection parameters	Winding alloy, filler, ring materials, size and flange class
Joint compatibility	Matched to flange facing and piping specification
Installation	Controlled bolting sequence and engineered bolt load
Replacement	Single-use; replace whenever the flange joint is opened

Applications: Industrial flange joints in process piping and equipment.

Options: Winding alloy, filler, ring arrangement and dimensions matched to flange geometry and service.

ARAMAK website | Gaskets

GASKETS
& SEALING

Sealing solutions for process connections.

SERVING KEY INDUSTRIES

- Power Generation
- Water & Wastewater
- Food Industries
- Mining & Minerals
- Oil & Gas
- Petrochemicals

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Gaskets inquiry guide

Inputs to resolve before a product selection is released.

01 FLANGE DETAILS

Flange standard, nominal size, pressure class and facing.

02 PROCESS DUTY

Fluid, operating / design pressure and temperature.

03 CONSTRUCTION

Winding, filler and inner / outer ring requirements.

04 DOCUMENTATION

Quantity, tag or joint identification and inspection / certificate requirements.

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PRODUCT CATALOGUE

Industrial measurement and process instrumentation.

PRODUCT FAMILIES

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Orifice installations

ARAMAK orifice elements installed in two process lines, as identified by the supplied project photographs.



FIELD INSTALLATION / 01



FIELD INSTALLATION / 02

Diaphragm-seal work



GOLD-COATED DIAPHRAGM SEAL

ARAMAK project reference: 2 in / Class 300 / RF, SS316L diaphragm and flange, with gold coating and 1/4 in NPT + capillary connection. These are project-specific details, not general product limits.



ACTUAL PRODUCT PHOTOGRAPH

Metallic diaphragm-seal faces in different configurations.

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PRODUCT CATALOGUE

Industrial measurement and process instrumentation.

PRODUCT FAMILIES

- Level
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- Flow
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Traceable documentation

Documentation references cover vendor documentation, an oil-and-gas approved-vendor-list entry, an orifice test result, and a marine / level-gauge document.

Vendor documentation	The original vendor document governs the applicable scope.
Oil-and-gas AVL reference	Current listing status and exact scope require document-level verification.
Orifice testing result	The report must be checked for test conditions and applicability to the specific configuration.
Marine / level-gauge document	Holder, issuer, covered product and validity dates require document-level verification.
ISO / hazardous-area marks	No current ISO, ATEX or IECEx certificate is asserted or displayed as verified in this issue.

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