ATLAS
SAYAÇ ve ÖLÇÜ ALETLERİ A.Ş.

www.atlassayac.com

Who we are

We provide modern and cost effective equipment (heat, water meters, pumps, valves

Readout systems, Lora RF systems) and automation and power distribution solutions.

Atlas Sayaç A.S. is located Turkey, and it occupies an area of 10.000 square meters.

Atlas company is an Turkish company that has been designing, producing and distributing instruments, pumps and valves solutions used for heating and cooling, for over 20 years.

The result of work of our engineers our company have own patents, inventions and industrial designs registered in Turkey.

Atlas company employs over 100 employees in Turkey. The yearly production currently exceeds 200,000 units putting Atlas in a leading position at Turkish level.

The product range includes heat and water meters, Readout systems (Lora RF, GSM) Pumps, Heat Cost Allocators, Frequency Converters, Big Size Water meters, İrrigation System Valves, etc.
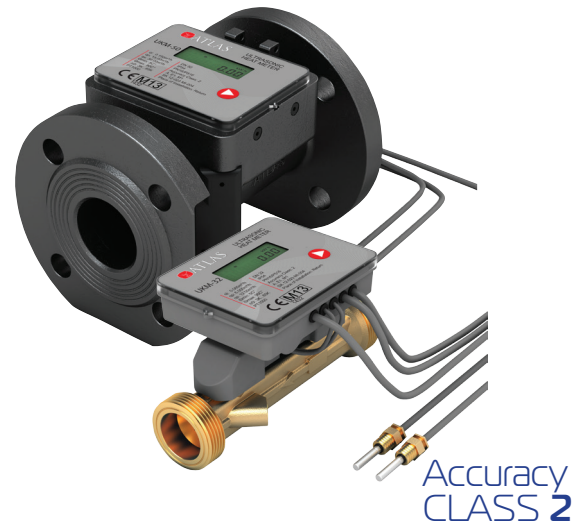
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Ultrasonic Heat Meters

Application

ATLAS UKM series is a high accurate meter for measuring consumption energy in heating and cooling systems in residential, and industrial facilities. Ultrasonic flow sensor, with brass/plastic housing, is key part of device that ensures high precision, high measurement stability of meter regardless of its mounting position (horizontal/vertical). Besides it ensures insensitivity of device to magnetic field. Information from the meter can be read remotely by wire (M-Bus, LoRA RF, pulse/analog output) or wirelessly (LoRA RF 868 MHz), allowing cooperation of ATLAS CNV Concentrator and LoRa Gateway with different data reading systems and building automation."

Accuracy
CLASS **2**

Approved according to the MID 2014/32/EU MI004

LoRa | M-Bus | M-Bus wireless | RS-485

Type	DN [mm]	q_p [m³/h]	q_i [m³/h]	Length [mm]	Height [mm]	Width [mm]
UKM 15	15	0,60 / 1,50	0,012 / 0,03	110	94	83
UKM 20	20	2,50	0,05	130	94	83
UKM 25	25	3,50	0,07	180	94	83
UKM 32	32	6,00	0,06	180	100	83
UKM 40	40	10,00	0,10	200	120	83
UKM 5O	50	15,00	0,15	200	165	165
UKM 65	65	25,00	0,25	200	185	185
UKM 80	80	40,00	0,40	220	200	200
UKM 100	100	60,00	0,60	250	220	220
UKM 125	125	100,00	1,00	250	250	250
UKM 150	150	150,00	1,50	300	285	285
UKM 200	200	250,00	2,50	350	340	340
UKM 250	250	400,00	4,00	450	405	405
UKM 300	300	560,00	5,60	500	460	460

Product features

- Temperature range 5…130°C.
- Nominal pressure: PN16
- Meter protection rating: IP65
- Energy units: kWh, MWh, Gcal, GJ *Optional
- Work with systems containing water
- Easy to read 8 digit display, with symbols indicating operation state of meter, operated by a single button
- Some models have rotatable by 180° calculator with wall-mount possibility.
- Battery powered (battery lifetime up to 10 years)
- Integrated pulse outputs for energy and volume.

Singlejet Heat Meters

Application

Seres and SJM Singlejet Series heat meters is a high accurate meter for measuring consumption energy in heating and cooling systems in residential, and industrial facilities. Singlejet/ Multijet flow sensor, with brass/ plastic housing, is key part of device that ensures high precision, high measurement stability of meter regardless of its mounting position (horizontal/ vertical). Besides it ensures insensitivity of device to magnetic field. Information from the meter can be read remotely by wire (M-Bus, LoRA RF, pulse/analog output) or wirelessly (LoRA RF 868 MHz), allowing cooperation of ATLAS CNV COncentrator and LoRa Gateway with different data reading systems and building automation."

Accuracy CLASS **2**

Approved according to the MID 2014/32/EU MI004

LoRa | M-Bus | M-Bus wireless | RS-485

Type	DN [mm]	q_p [m³/h]	q_i [m³/h]	Length [mm]	Height [mm]	Width [mm]
SERES SOLİD	15	0,60 / 1,50	0,012 / 0,03	110	107	84
SERES SOLİD	20	2,50	0,05	130	107	84
SERES SOLİD	25	3,50	0,07	180	107	84
SJM 15	15	1,50	0,03	110	81	70
SJM 20	20	2,50	0,05	130	81	70
SJM 25	25	3,50	0,07	180	81	70

Product features

- Temperature range 5…130°C.
- Nominal pressure: PN16
- Meter protection rating: IP65
- Energy units: kWh, MWh, Gcal, GJ *Optional
- Work with systems containing water
- Easy to read 8 digit display, with symbols indicating operation state of meter, operated by a single button
- Some models have rotatable by 180° calculator with wall-mount possibility.
- Battery powered (battery lifetime up to 10 years)
- Integrated pulse outputs for energy and volume.
- High Accurate readings (Class 2)
- Fully resistant on the external magnetic field
- Brass / Composite body alternative
- PT100/PT500/PT1000 alternative

Multijet Heat Meters

Application

MKM Multijet series heat meters is a high accurate meter for measuring consumption energy in heating and cooling systems in residential, and industrial facilities. Singlejet/ Multijet flow sensor, with brass/ plastic housing, is key part of device that ensures high precision, high measurement stability of meter regardless of its mounting position (horizontal/vertical). Besides it ensures insensitivity of device to magnetic field. Information from the meter can be read remotely by wire (M-Bus, LoRA RF, pulse/analog output) or wirelessly (LoRa RF 868 MHz), allowing cooperation of ATLAS CNV COncentrator and LoRa Gateway with different data reading systems and building automation."

Accuracy CLASS **2**

Approved according to the MID 2014/32/EU MI004

LoRa | M-Bus | M-Bus wireless | RS-485

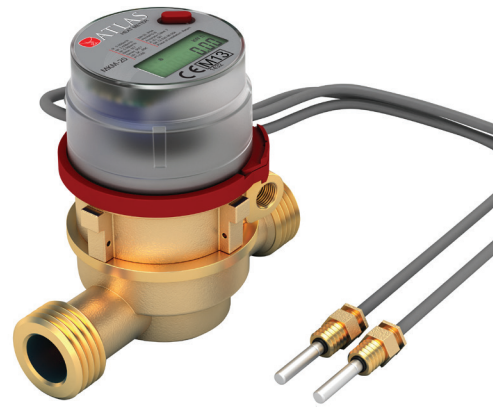| Type	DN [mm]	q_p [m³/h]	q_i [m³/h]	Length [mm]	Height [mm]	Width [mm]
MKM 15	15	0,60 / 1,50	0,012 / 0,03	110	120	70
MKM 20	20	2,50	0,05	130	120	70
MKM 25	25	3,50	0,07	180	120	70

Product features

- Temperature range 5…130°C.
- Nominal pressure: PN16
- Meter protection rating: IP65
- Energy units: kWh, MWh, Gcal, GJ *Optional
- Work with systems containing water
- Easy to read 8 digit display, with symbols indicating operation state of meter, operated by a single button
- Some models have rotatable by 180° calculator with wall-mount possibility.
- Battery powered (battery lifetime up to 10 years)
- Integrated pulse outputs for energy and volume.
- High Accurate readings (Class 2)
- Fully resistant on the external magnetic field
- Brass / Composite body alternative
- PT100/PT500/PT1000 alternative

Cold / Hot Water Meters (Electronic Water Meter)

Application

ATLAS EC20/EH20 series is a high accurate meter for measuring consumption water quantity in water distribution systems in residential, and industrial facilities. Singlejet flow sensor, with brass/ plastic housing, is key part of device that ensures high precision, high measurement stability of meter regardless of its mounting position (horizontal/vertical). Besides it ensures insensitivity of device to magnetic field. Information from the meter can be read remotely by wire (M-Bus, LoRa RF, pulse/analog output) or wirelessly (LoRa RF 868 MHz), allowing cooperation of ATLAS CNV Concentrator and LoRa Gateway with different data reading systems and building automation."

Accuracy
CLASS **2**

Approved according to the MID 2014/32/EU MI001

LoRa   M-Bus   M-Bus wireless   RS-485

Type	Q_3/Q_1	DN [mm]	Q_4 [m³/h]	Q_3 [m³/h]	Q_2 [m³/h]	Q_1 [m³/h]	Length [mm]	Height [mm]	Width [mm]
EC 15	R100	15	2,00	1,60	0,025	0,016	110	81	70
EC 15	R100	15	3,125	2,50	0,04	0,025	110	81	70
EC 20	R100	20	3,125	2,50	0,04	0,025	130	81	70
EC 20	R100	20	5,00	4,00	0,064	0,04	130	81	70
EC 25	R100	25	7,875	6,30	0,10	0,063	180	81	70
EH 15	R100	15	2,00	1,60	0,025	0,016	110	81	70
EH 15	R100	15	3,125	2,50	0,04	0,025	110	81	70
EH 20	R100	20	3,125	2,50	0,04	0,025	130	81	70
EH 20	R100	20	5,00	4,00	0,064	0,04	130	81	70
EH 25	R100	25	7,875	6,30	0,10	0,063	180	81	70

Product features

- Temperature range T30/90°C for EH series, T50 for EC series.
- Nominal pressure: PN16
- Meter protection rating: IP65
- Work with systems containing water
- Easy to read 8 digit display, with symbols indicating operation state of meter, operated by a single button
- Some models have rotatable by 180° calculator with wall-mount possibility.
- Battery powered (battery lifetime up to 11 years)
- Integrated pulse outputs for volume.
- Can be installed in any orientation
- Fully AMR compatible

Ultrasonic Water Meters

Application

ATLAS USM15......USM300 series is a high accurate meter for measuring consumption water quantity in water distribution systems in residential, and industrial facilities. Ultrasonic flow sensor, with brass/ Cast Iron housing, is key part of device that ensures high precision, high measurement stability of meter regardless of its mounting position (horizontal/vertical). Besides it ensures insensitivity of device to magnetic field. Information from the meter can be read remotely by wire (M-Bus, LoRA RF, pulse/analog output) or wirelessly (LoRA RF 868 MHz), allowing cooperation of ATLAS CNV COncentrator and LoRa Gateway with different data reading systems and building automation.

Approved according to the MID 2014/32/EU MI001

LoRa | M-Bus | M-Bus wireless | RS-485

Accuracy CLASS 2

Type	DN [mm]	Q_3/Q_1	Q_4 [m³/h]	Q_3 [m³/h]	Q_2 [m³/h]	Q_1 [m³/h]	Length [mm]	Height [mm]	Width [mm]
USM 15	15	R400	2,000 / 3,125	1,600 / 2,500	0,006 / 0,010	0,004 / 0,006	110	94	83
USM 20	20	R400	3,125 / 5,000	2,500 / 4,000	0,010 / 0,016	0,006 / 0,010	130	94	83
USM 25	25	R400	7,875	6,300	0,025	0,015	180	94	83
USM 32	32	R400	12,500	10,000	0,040	0,025	180	100	83
USM 40	40	R400	31,250	25,000	0,100	0,063	200	120	83
USM 50	50	R400	50,000	40,000	0,160	0,100	200	165	165
USM 65	65	R400	78,750	63,000	0,250	0,160	200	185	185
USM 80	80	R400	125,000	100,000	0,400	0,250	220	200	200
USM 100	100	R400	200,000	160,000	0,640	0,400	250	220	220
USM 125	125	R400	200,000	160,000	0,640	0,400	250	250	250
USM 150	150	R400	312,500	250,000	1,000	0,630	300	285	285
USM 200	200	R400	500,000	400,000	1,600	1,000	350	340	340
USM 250	250	R400	787,500	630,000	2,520	1,580	450	405	405
USM 300	300	R400	1.250,00	1.000,00	4,000	2,500	500	460	460

Product features
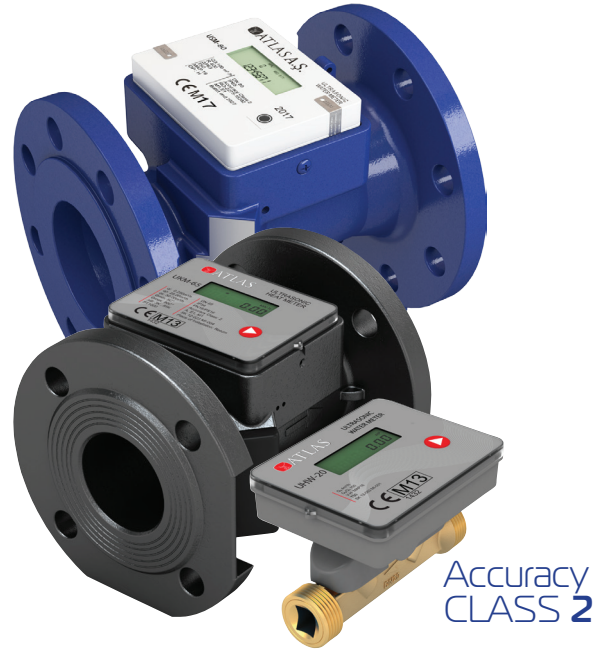
- Temperature range T30/90°C.
- Nominal pressure: PN16
- Meter protection rating: IP68
- Work with systems containing water
- Easy to read 8 digit display, with symbols indicating operation state of meter, operated by a single button
- Some models have calculator with wall-mount possibility.
- Battery powered (battery lifetime up to 11 years)
- Integrated pulse outputs for volume.

Ultrasonic Flow Meters

Application

Water

Hot water / cooling systems

Oil and liquefied gases

Benefits

- Design for industrial applications
- No pressure drop
- Conductive or non-conductive
- Reliable and accurate flow measurements
- Long-time stability
- insensitivity of device to magnetic field

Type	DN [mm]	Min. Flow [m³/h]	Max. Flow [m³/h]	Length [mm]	Height [mm]	Width [mm]
DN50	40	0,1	40	50	50	300
DN65	63	0,1575	63	78,75	65	300
DN80	100	0,25	100	125	80	300
DN100	160	0,4	160	200	100	350
DN125	250	0,625	250	312,5	125	350
DN150	400	1	400	500	150	400
DN200	630	1,575	630	787,5	200	400
DN250	1000	2,5	1000	1250	250	500
DN300	1600	4	1600	2000	300	500

Product features

- **Output : MODBus, ProfiBus DP, 4-20 mA HART, 0-10V, Pulse/**
- frequency/switch output/Relay
- Protection Class : IP68
- Measuring Cycle : 0,2sn
- Connection : Flange
- Accuracy : 0,2%
- Possiblity : **GSM/GPRS** data transmission
- Flow : Bidirectional flow measurement
- Material : Steel, 304-316 Optional
- Humidity : 0-95%
- High temperature versions available
- Bi-directional flow measurement over a wide dynamic range
- Various digital communication options

Heat Cost Allocator

COST ALLOCATOR Unical

Electronic double-sensored heating cost allocator

Heating cost allocator Unical designed for monthly calculations of heating consumption costs in the rooms with heating systems. Preferable application range – horizontal or vertical heating systems with one or two pipes with an average minimum heating transmitter temperature equal or higher than 35°C and at a maximum equal or lower than 90°C.

Technical Parameters	ATLAS Unical
Reading range in open space	< 250 m
Data protocol format	LCD / Wireless M-Bus/ LoRa RF
Frequency range	868 MHz
Output power	< 5 mW
Protection degree	IP42
Weight	0,076 kg

Product features

- Wireless data transmission system realised by: direct reading through the reader and radio interface for remote reading outside the room with installed cost allocators.

- Cost allocator is equipped with ergonomically placed LCD display that allows the user to comfortably read the current values of heat consumption. Moreover, these data are registered in internal memory module

- Installation and configuration of additional equipment is not required. The cost allocator operates based on the software that considers real heat consumption in the given apartment.

- Any unauthorised manipulation (breaking the electronic seal) is registered with the exact date of this occurrence. The information about manipulation trial is sent together with the next radio reading.

- Data reading with PDA or by the stationary network of data readings

- Elimination of eventual mistakes casued by the human factor

- Easy data reading from the hard to reach installed appliances

- Data reading is fully resistant for any interference from the magnetic field

Thermostatic Radiator Valves

Application

Unical DN15 TRV

• Unical   R 1/2"F

• Relevant standard : EN 215

• Working pressure : 10 bar

• Maximum working temperature : 120°C

• Setting range : +5° , +29°C

• Nominal flow rate : qmNH=265kg/h (±)

• Hysteresis : C=0,4K

• Differential pressure influence : D=0,4K

• Water temperature influence : W=0,6K

• Response time : Z=23 min.

Connection Size	
Model	Size
Thermostatic head	M30x1,5
Thermostatic valves DN15 straight	½"
Thermostatic valves DN15 angled	½"

Packaging specifications:

Model	Box size(mm)	Carton size(cm)	PCS/CTN	G.W.(kg)	Pallet size(cm)	PCS/each pallet
Unical DN15	55x55x95	57.5X30X21	100	16	92X118X115	3000

Ensures optimal comfort at home, room by room.

Atlas radiator thermostats help people to obtain comfort in their homes. By maintaining constant desired room temperatures, individually or room by room, and by helping to reduce energy consumption.
They can save approximately 20% compared to a manually operated valve due to utilization of free heat gains and constant room temperature.

Dynamic Balance Valves

Application

ATLAS ADP Dynamic Balance Valve Series is designed for domestic heaating/ cooling systems, to reduce water and save energy.

Balancing is based on the placement of valves on the circuit, in order to control flow. It is essential if the system is subject to variable flow rates. It adjusts the flow rate necessary for each branch or device, allowing them to deliver the power for which they have been calculated.

Reduces noise in the system, particularly in high-rise constructions, by controlling excessive flow rates. Allows partial closing of projects and system maintenance while working.
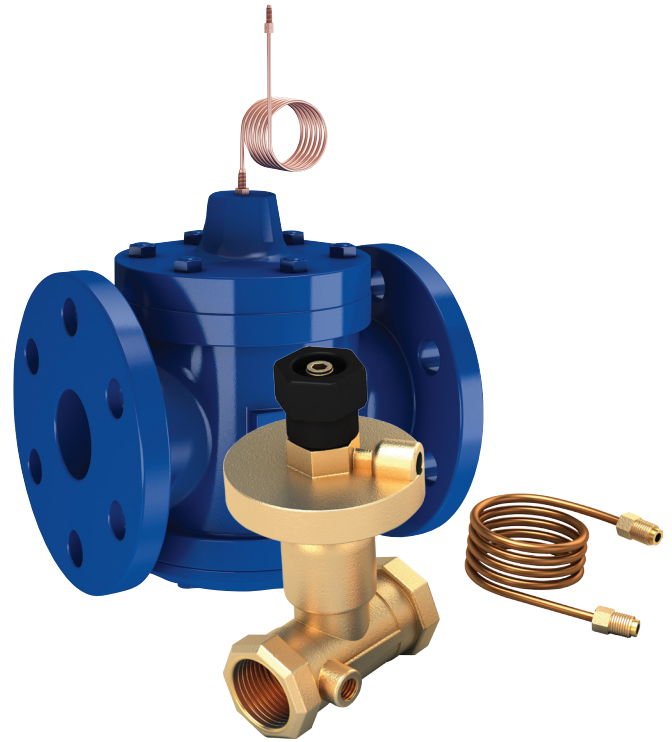
Type	DN [mm]	K_{vs} Value [m³/h]	PN [bar]	Max. Pressure Difference [bar]	Max. Differential Pressure [kPa]	Length [mm]	Height [mm]
ADP 20	20	1,2-1,6	25	4,5	5-25	70	104
ADP 25	25	1,2-8,6	25	4,5	5-25	120	160
ADP 32	32	1,3-13	25	4,5	5-25	180	174
ADP 40	40	1,2-1,6	25	4,5	5-25	200	220
ADP 50	50	2,2-39	25	4,5	5-25	230	240
ADP 65	65	2,2-58	25	4,5	20-80	290	300
ADP 80	80	2,8-80	25	4,5	20-80	310	310
ADP 100	100	2,2-58	25	4,5	20-80	350	375

Features:

■ Easy, fast and flexible HVAC system design

■ Fast installation and easy setting

■ Lower commissioning cost - no need for

■ Faster project with staged handoverPerfect balance at all loads

■ Guaranteed flow and Δp for users

■ No problems caused by poor designed/

■ Unoccupied zones do not impact other

■ Flow verification and easy troubleshooting

■ No electric power required

■ Longer life for thermostatic control valves

Prepaid Meters

Application

Adopts one touch less card "Separate" and "integrated" meter are available Different price can be set in different meter Beep alarm for low credit In this system, one water meter can work for many different IC card. When consumers insert the card in a meter, the water will flow out and the water quantity in card will be deduced correspondingly. This system can be used in public areas

Accuracy
CLASS **2**

Type	Dynamic range	q_p [m³/h]	q_i [m³/h]	DN [mm]	Length [mm]	Height [mm]	Width [mm]
USM 20-P	R - 400	4	0,01	20	195	96	100

Features:

- Class 2
- DN15, 20 and 25
- Integrated low power bistable latched valve
- Potted electronics making meter water resistant in humid and tropical environments
- Low credit warning
- Over 10 years' data retention in absence of power
- Prepared for AMR functions with LoRa RF, MBUS, (optional)
- MID approved
- Supports LoRaWan and Wireless MBUS Protocols simultaneously
- Ultrasonic principle assures very high sensivity even at low flow
- No measurement of air, Reverse flow detection
- Can be mounted all positions desired

Circulation Pump

ATLAS VFPUMP series circulation pump designed for

• Heating / Cooling systems

• Air conditioning and cooling systems

• Domestic water systems

• Ground-source heat pump systems

• Solar heating systems

Type	DN [mm]	Power (Watt)	H_{max} [m]	Q_{max} [m3/h]	Length [mm]	Height [mm]
VFPUMP 25	25	18-93	10	12	130	180
VFPUMP 32	32	33-245	14	22	180	200
VFPUMP 40	40	58-515	18	22	250	310
VFPUMP 50	50	99-890	25	32	280	320
VFPUMP 65	65	132-1180	25	38	340	350

ATLAS VFPUMP series have two different type motor series .

Asynchronous circulator series

■ Standard model

■ Integrated Frequency control system

Frequency Control Model Features :

■ AUTOADAPT

■ FLOWADAPT and FLOWLIMIT

■ Optional Constant temperature control

■ Not need external motor protection

■ Low energy consumption

■ Simple installation

■ Minimal maintenance and long life

■ User interface and LCD display

■ Optional heat energy meter function

■ Range is available for system pressures of 6, 10 and 16 bar

Standard Model Features :

■ Simple Installati, on

■ Minimal maintenance and long life

■ Range is available for system pressures of, 6, 10 and 16 bar

Circulation Pump ECO

ATLAS VFPUMP ECO series circulation pump designed for

• Heating / Cooling systems

• Air conditioning and cooling systems

• Domestic water systems

• Ground-source heat pump systems

• Solar heating systems
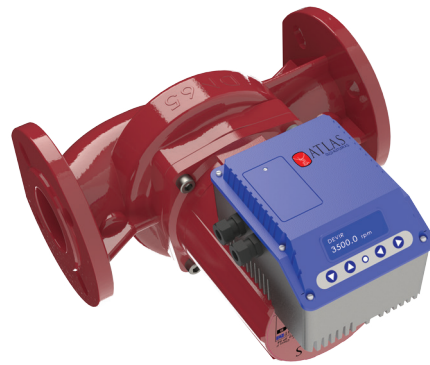
Type	DN [mm]	Power (Watt)	H_{max} [m]	Q_{max} [m3/h]	Length [mm]	Height [mm]
ECOPUMP 25	25	18-93	10	12	130	180
ECOPUMP 32	32	33-245	14	22	180	200
ECOPUMP 40	40	58-515	18	22	250	310
ECOPUMP 50	50	99-890	25	32	280	320
ECOPUMP 65	65	132-1180	25	38	340	350

ATLAS VFPUMP ECO series have two different type motor series. ATLAS VF PUMP ECO series have high efficient permanent magnet motor.

Synchronous circulator series

■ Permanent magnet series Integrated Frequency Control System

Features :

■ AUTOADAPT

■ FLOWADAPT and FLOWLIMIT

■ Optional Constant temperature control

■ Not need external motor protection

■ Low energy consumption

■ Simple installation

■ Minimal maintenance and long life

■ User interface and LCD display

■ Optional heat energy meter function

■ Range is available for system pressures of 6, 10 and 16 bar

Standard Model Features :

■ Simple Installati, on

■ Minimal maintenance and long life

■ Range is available for system pressures of, 6, 10 and 16 bar

MBUS/ LoRa RF Concentrators/ Gateways

ATLAS CNV Mbus/ GSM concentrator:

- Read up to 250 device by M-BUS interface

- Protecting system for short circuit and overcurrent

- Warning system by light and buzzer

- Sleeping mode for preventing energy loss

- Supports RS232 and USB 2.0

- Supports from 300 baud up to 19.200 baud

- Works between -20 °C and +70 °C

- Produced according to the requirements of TS EN 1434-3 and TS EN 13757-2 standard systems

- It is possible to integrate a GSM modem to CNV250

TECHNICAL DETAILS

- Supports all brand and model meters of which are produced according the requirements of EN 1434 Standards

- Active logout protection. It is not affected from unexpected situations of M-BUS system by its short circuit and overcurrent protection system.

- When CNV250 faces with short circuit, it warns the user by its led lights and buzzer. At the same time it keeps the line in quarantine to protect itself and meters.

- CNV250 keeps itself at energy save mode if it is not used. By the way it saves energy and it protects meters from the effects of noise. It keeps M-Bus line neutral to protect it from unexpected situations like short circuit.

- By its USB 2.0 output it can be connected to the computer directly without any convertor devices.

- It prevents the noise at line caused by foreign sources by its filtering system. USB port is totally insulated as galvanic. Even high voltage is applied to the M-Bus line, the computers connected to the convertor are not affected and damaged.

- The meters can be connected to the same line by 2 cables without any direction difference

- The cable length can be made longer up to 1500m without any additional device

ATLAS LoRa Lorawan Gateway

Application

Application

Smart city

Smart Metering (Water, Electric, Gas meter)

Agricultural Monitoring

Irrigation control

Internet of Things (IoT)

M2M

Wireless Sensors

Wireless Alarm and Security Systems

Type	Input voltage	Communication	Frequency Range	Operating Frequency	Communication Distance	Max TX Power	Max RX Sensitivity	Channel Output	Width	Length	Height
ATLAS LoRa Gateway LR-1	12-24 Volt, 2 Amper	Gsm, Ethernet, Rs485, Wifi	433-923 MHz	EU433, CN470-510, CN779-787, EU863-870, US902-928, AU915-928, AS923, KR920-923	(Outdoor) 15 KM	25 dBm	-140 dBm	7 LoRa Output, 1 FSK Output	157 mm	91 mm	58 mm

ATLAS LoRa/ LoRaWAN Gateway specifications :

Product Module: LoRaWan gateway

LoRa long range module technology

Half-duplex

Simultaneously receive LoRa packets

Dual digital Tx & Rx radio front-end

Dynamic data-rate adaptation (ADR)

Multi LoRa Spreading Factor

Maximum 10 channels

8 x Multi SF LoRa channels (SF7 to SF12 with125kHz Bandwidth)

1 x LoRa channel (Bandwidth 125/250/500kHz)

1 x FSK channel

3 way valves and actuators (DN20... DN200)

- The body is made from GGG40 cast iron _
  Motor Shaft connections are Stainless steel _
  Full compatibility with Atlas Ecopanel

- Full compatibility with Atlas Valve Actuator
  Actuator

- Ability to work with different brands and
  models of motor drives and ports compatibility
  _ 90° rotation angle _ Flanged connection
  PN6/PN10/PN16 _ Pressure class PN6 _ Can
  be produced from DN20 up to DN200
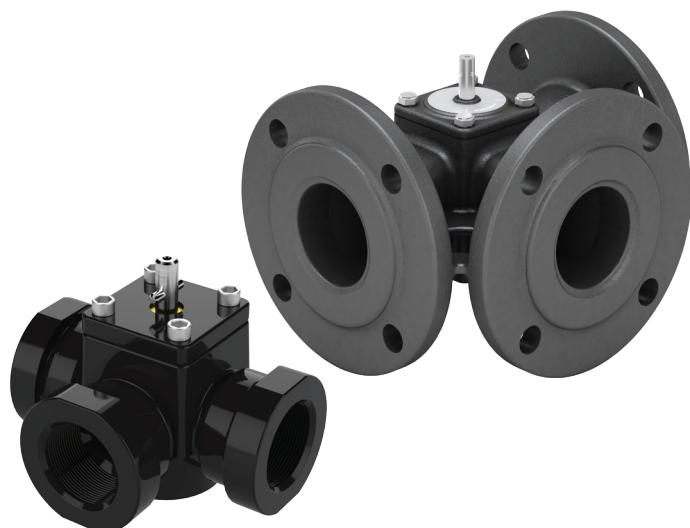
Type	KVS	Connection	Length (mm)	Width (mm)	Height (mm)
UYV 20	6,30	3/4"	110,00	83,00	63,00
UYV 25	10,00	1"	110,00	83,00	63,00
UYV 32	16,00	1 1/4"	130,00	94,00	88,00
UYV 40	25,00	1 1/2"	130,00	94,00	88,00
UYV 40	25,00	DN40 Flange	180,00	150,00	150,00
UYV 50	40,00	DN50 Flange	180,00	165,00	165,00
UYV 65	63,00	DN65 Flange	200,00	185,00	185,00
UYV 80	100,00	DN80 Flange	230,00	200,00	200,00
UYV 100	160,00	DN100 Flange	260,00	220,00	220,00

Product Description

- In our broad assortment of
  products, we are distributing
  and supplying a qualitative of
  Three Way Valve Actuators..

Features:

- 3 way valves can be piped for diverting or mixing valve applications in domestic central heating
  and/or cooling systems
- Both versions can be used to control individual fan coil, baseboard radiator or convector
  applications
- Flanged control ball valve offering available (VBF)
- Accurate flow control
- Simplified actuator selection with a large range of Cvs
- Field replaceable stem allows valve to be serviced and replaced on the pipe
- Parabolic flow insert constructed into the ball provides high quality seals and precise control
- Multi-actuator mounting bracket allows the same bracket to be utilized on all valves
- Removable manual operating handle to control valve during installation or in an event of power
  failure

Remote control Valve (dn20 to DN200)

(RFID Card / GSM / RF / LoRa / Wifi)

Application:

- Battery Powered

- AMR Compatible

- Up to DN200

- Flanged connection

- Low pressure drop

- Can be used drinking water

- RFID Card / GSM / RF / LoRa / Wifi Opritional

- Eaay to use

- ATLAS Remote control Valves are used on the purpose of on/ off and regulation. This larger actuator area difference produces bigger control forces than required to close the valve, stopping the flow to the zero-flow condition. This larger actuator area difference produces bigger control forces than required to close the valve, stopping the flow to the zero-flow condition

- There are two kinds of valves available;

- Motor Actuated – Diaphragm Controlled Valves (DN15 to DN40)

- Diaphragm Actuated – Plug Controlled Valves (DN50 to DN300)
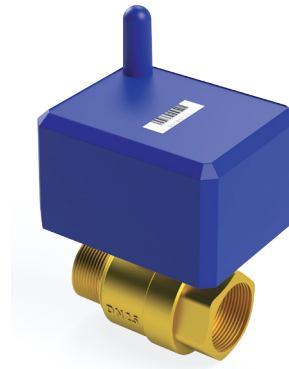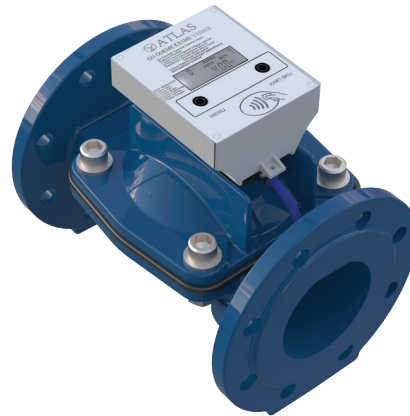
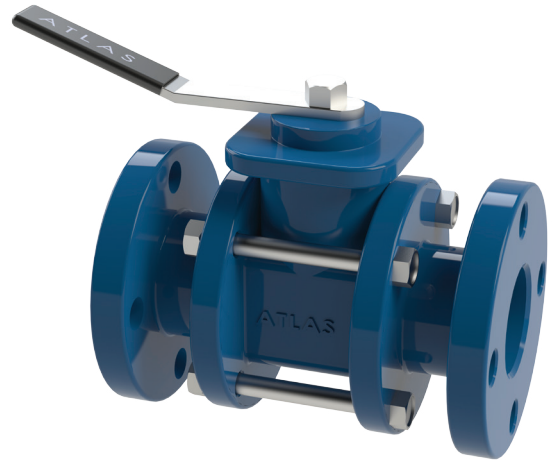### Features:
- On/ off
- Pressure Reducing
- Pressure Sustaining (preserve) and Relief
- Pump Control (Automation to give and cut path)
- Surge Anticipating Control
- Solenoid Control (SCADA and Automation applications)
- Water Level Control (Modulating and Differential)
- Combinations of the above control valves (E.g. Pump Control Valve with Pressure Sustaining, Pressure Reducing Solenoid Valve)

Ball Valve

Application:

- ATLAS ball valve is a device with a spherical closure unit that provides on/off control of flow. The sphere has a port, also known as a bore, through the center. When the valve is positioned such that the bore is aligned in the same direction as the pipeline, it is in open position and fluid can flow through it. When rotated 90 degrees, the bore becomes perpendicular to the flow path, meaning the valve is closed and the fluid cannot pass through.

Type	Flange Diameter [mm]	Torque [Nm]	Kvs [m³/h]	DN [mm]	Length [mm]	Height [mm]
50	165	12	310	50	150	130
65	185	30	600	65	170	145
80	200	35	950	80	180	155
100	220	45	1630	100	190	180

Features:

- Ball valve body made GJS 400 cast iron.
- It can be mounted to circulation pump by directly.
- It can be used in both directions.
- It has minimum pressure lose.
- It can be controlled by low torque.
- It can be used with gear box or actuator.

Gate Valve

Application:

■ Gate valves are designed for fully open or fully closed service. They are installed in pipelines as isolating valves, and should not be used as control or regulating valves. Operation of a gate valve is performed doing an either clockwise to close or clockwise to open rotating motion of the stem. When operating the valve stem, the gate moves up- or downwards on the threaded part of the stem.

Type	D [mm]	Length [mm]	Height [mm]
DN 50	165	150	200
DN 65	185	170	225
DN 80	200	180	256
DN 100	220	180	285
DN 125	250	200	330
DN 150	285	210	375
DN 200	340	230	470
DN 250	395	250	650
DN 300	445	270	720

Features:

■ Gate valves are often used when minimum pressure loss and a free bore is needed.

■ When fully open, a typical gate valve has no obstruction in the flow path resulting in a very low pressure loss.

■ As the valve has to turn multiple times to go from open to closed position, the slow operation also prevents water hammer effects.

AC frequency Converters

- AT series inverter, presented byAtlas, is a new-generation high performance modular inverter that represents the future development of inverter. Compared with the traditional inverter, it satisfies the requirements of customers on performance and functions by a customized platform instead of several series of products that may increase the cost of manufacturing, sales, application and maintenance. This platform is established on the basis of the segmentation of the customer requirements, on which the modular design is conducted through the flexible combination of several modules of single series of products

Modbus-RTU, PROFIBUS-DP, CANlink and CANopen

Model	Phase	Adaptable Motor [kW]
AT1PH220	1	0,4-2,2
AT3PH220	3	0,4-75
AT3PH380	3	0,75-400

Product Features:

- Multiple voltage classes It provides coverage of single-phase 220 V, three-phase 220 V, three-phase 380 V, three-phase 480 V, three-phase 690 V and three-phase 1,140 V.
- Multiple output power 0.4KW to 630Kw
- Control of asynchronous motor and PMSM It supports vector control of three-phase AC asynchronous motor and three-phase AC PMSM
- Diversified control modes It supports three control modes, namely, sensorless flux vector control (SFVC), closedloop vector control (CLVC) and V/F control.
- Multiple communication protocols It supports communication via Modbus-RTU, PROFIBUS-DP, CANlink and CANopen.
- Multiple encoder types It supports various encoders such as differential encoder, open-collector encoder, resolver and UVW encoder.
- All-new SFVC algorithm It introduces an all-new sensorless flux vector control (SFVC) algorithm that gives better low-speed stability, enhanced low-frequency loading capacity, and supports torque control.
- Advanced background software The background monitoring software helps to achieve functions of parameter upload & download and a real-time oscilloscope.

Temperature Sensors (PTC NTC Pt100, Pt1000, Pt500)

Applicatinos:

- Atlas produced temperature sensors as your requirement in pocket, thermowell or head assemblies. All our thermocouple inserts are custom made, as such we are able to tailor your sensors exactly to your requirements.

- We can make temperature sensors using:
- Pt100/Pt500/Pt1000 and other types of platinum resistance thermometer
- Integrated Circuit (IC) Temperature Sensor (You supply or designate sensor to use)
- Thermocouples – All types including base metal and rare metal
- Thermistors (NTC, PTC)

- OEM/ ODM services are welcome.
- Surface : as per your requirements
- Material : steel/aluminium/brass/iron/zinc
- Any other materials and dimensions depends on customers deman

What we can do:

- Provide input on design for manufacturing
- Evaluate and explain the impact of design changes
- Explain the key manufacturing process of product performance parameters
- Contribute to trade-off analyses and problem solving
- Help you bring unit costs down
- Handle assembly of sensors from one-offs to millions of units
- Help you decide on the best technology to use whether it be resistance thermometers or thermocouples

ATLAS
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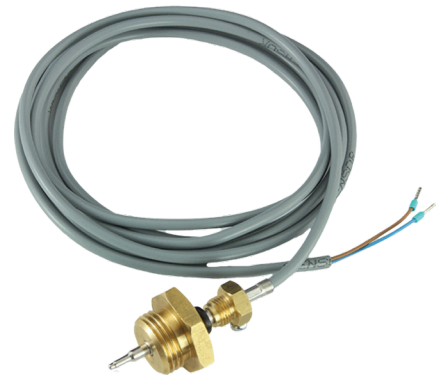
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