

BOISWOOD

GAS AND LIQUID CONTROL TECHNOLOGIES

Pressure & Vacuum

Flow

Level & Temperature

Tube & Fittings

HVAC/R

Custom Services

Renewable Energy & Alternative Fuels
Products and Services Catalogue





WE'RE KNOWN FOR SELLING SOLUTIONS

Our journey started in 1989, when Boiswood was founded. As our knowledge and expertise grew, so did our vast range of products and services, and today, we are one of the country's most well respected and trusted suppliers of gas and liquid control technologies.

We are partnered with several high-quality, globally reputable manufacturers with a distinct range of products and services that offer unique features and benefits to EPC's, System Integrators, OEM's and End Users....our customers.

Our whole business culture centres around our genuine commitment to hands-on service and support, whenever and wherever this is required. We offer unparalleled advice and support, and our 'one stop shop' approach removes all the headache and hassle from our customers, ensuring you always get what you need on-time, on-budget and the perfect fit for your application.

We have over 30 years of successful experience in an extensive range of applications and processes within the markets we serve. Our visionary, technically astute and customer focused approach ensures we consistently add value. Working closely with our customers and supply partners ensures we stay up to date with the latest technologies, using our insight to facilitate the niche and specialist markets we serve.

You can rely on us to specify, supply and support all your gas and liquid control needs.

In the face of global warming, the renewable energy industry plays a vital role in improving the health of our planet and requires the right tools in order to enable the continuous and reliable running and monitoring of what is a rapidly growing field.

SAVING THE PLANET, ONE SOLUTION AT A TIME

We work with wastewater treatment specialists, pumping stations, energy plants, and companies

involved in converting waste to energy using biogas anaerobic digestion processes. Our extensive range of products include condensate traps/auto drains, level and flow sensors, float valves, bleeding and venting valves, mass flow meters and differential pressure sensors. We are experienced across a range of applications, such as biogas pipelines, purge systems/inerting, storage and distribution tanks, mixing vessels and chemical dosing.

WE'RE TRUSTED BY...



Product Solutions

KA2 SERIES

Condensate & Biogas Traps



MANKENBERG



The KA2 ATEX series has been specially designed for draining compressed air gases (e.g. biogas) automatically and instantaneously, without requiring an external energy input.

TECHNICAL DATA:

G1/2 to G1" Connections • 16 BAR Nominal Pressure • 0 to 12 BAR Operating Pressures • Up to +190°C Temperature • For Use on Compressed Air, Gases or Cold Condensate • Up to 1,570 l/hr Flow Rates

FEATURES & BENEFITS:

Fast Delivery • Long life span • Easy to maintain • Resistant to pressure and corrosion • Reliable functionality • ATEX Certified

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EB1.12 SERIES

Bleeding and Venting Valves



MANKENBERG



The EB1.12 is a compact and continuous bleeding and venting valve that removes any air or gases from systems or pipelines, without requiring an external energy input.

TECHNICAL DATA:

DN25 to DN100 or G1/2 to G2 Connections • 16 BAR Nominal Pressure • Up to +130°C Temperature v For Use on Liquids • Up to 248 Nm³/h Flow Rates

FEATURES & BENEFITS:

Fast Delivery • Huge Global Install Base • DVGW and FDA Certified • Long life span • Easy to maintain • Resistant to pressure and corrosion • Reliable functionality • Suitable for Ozone

DOG SERIES

Oscillation Flowmeters



KOBOLD



The DOG series oscillation flowmeter is designed specifically for biogas applications.

TECHNICAL DATA:

0.12 to 12 up to 60 to 6,000 m³/h Flow Ranges (Air) • 40 BAR Nominal Pressure • Up to +120°C Temperature • DN25 to DN200 Connections • Stainless Steel Construction • ±1.5% Accuracy • Optional Flow Computer, Analogue and Pulse Outputs

FEATURES & BENEFITS:

No moving parts • Long term stability

EFV MRS SERIES

Manual Reset Excess Flow Valves



ChemTec

The EFV MRS excess flow valve is perfect for preventing uncontrolled flows of liquids and gases. Using a controlled bleed it can reset automatically and can restrict or shut off flow completely.

TECHNICAL DATA:

Available from 0.5 up to 3681 SLPM (Air) or 0.015 to 75.7 LPM (Water)
• 1/8" – 3/4" FNPT Ports (as Standard) • Stainless Steel or Brass Construction v Positive Shut Off Available v Fully custom models can be quoted on request

FEATURES & BENEFITS:

Unobtrusive right angle flow path to prevent blockage in the line • Operates via magnetic piston rather than spring design • Very low pressure drop • Adjustable flow range (not fixed)

PAD SERIES

Differential Pressure Transmitters



HART
COMMUNICATION PROTOCOL



The PAD series is a micro-processor based high performance transmitter, with flexible calibration and output configurations.

TECHNICAL DATA:

Up to 413.7 BAR Measuring Range • 310 BAR Max. Static Pressure • Up to +120°C Temperature • Various Output and Connection options • Differential, Gauge or Absolute pressure types • ±0.075% High Accuracy

FEATURES & BENEFITS:

Digital communication with HART® Protocol • ATEX Version Available

5000 SERIES

Low Pressure Transducers



Gems
Sensors & Controls

The 5000 series features a sturdy diaphragm that detects minute pressure variations, while withstanding large pressure spikes. The unit is designed to operate in the most demanding applications.

TECHNICAL DATA:

318 Duplex Stainless Steel Case Construction • Ranges from 25 to 1,000 mBAR • Current and Voltage Outputs • Broad Range of Pressure Connections and Electrical Terminations • ATEX Zenier or Galvanic Barriers • -40 to +100°C Temperature Ranges

FEATURES & BENEFITS:

Submersible and General Purpose models available • Designed to withstand Sea Water • High Accuracy • High Proof Pressures • Detects Minute Pressure Changes

Product Solutions

MIM SERIES

Magnetic Inductive Flowmeters



The MIM series was developed for measuring and monitoring small to medium sized flow of conductive liquids in pipelines.

TECHNICAL DATA:

0.03 to 3 up to 1.5 to 350 L/min (Liquids) • 16 BAR Nominal Pressure • Up to +140°C Temperature • 1/2" to 2" Connections (NPT or BSPP) • Stainless Steel Construction • 2 x Analogue, Pulse, Frequency, Alarm or IO-Link • 1 x Control Input

FEATURES & BENEFITS:

Rotatable IFT Display (Non-misting/condensation) • Compact design • Integrated PT1000 optional • Bidirectional measurement • Dosing function and grand totaliser options available

POWER METER SERIES

Revenue Grade Power Meters



The Power Meter is a networked revenue grade power meter built on a versatile and powerful platform designed to meet the high demands for any submetering application.

TECHNICAL DATA:

Monitor 3, 12 or 48 loads on any combination of single and/or three phase systems • Monitor voltage, current, power, energy and many other parameters • Onboard display

FEATURES & BENEFITS:

Rotatable display to simplify installation • Field selectable communication protocols • Safe access without PPE • Easy installation and configuration

278 SERIES

Barometric Pressure Transducers



The 278 series is the ideal solution for measuring barometric pressure for remote environment applications, including wind farms and weather stations.

TECHNICAL DATA:

500 to 1100 hPa/mb Pressure Ranges • Absolute Pressure Measurement • Voltage Input/Output • -40°C to +140°C Temperature

FEATURES & BENEFITS:

Long Term Stability • Sleep Mode for Instant Startup • Removable Terminal Strip Module for Easy Wiring • Footprint configured for easy "drop-in" replacement • NIST Traceable Calibration

DM652 SERIES

Universal Process Pressure Regulators



MANKENBERG

The DM652 Series is a self-acting pressure reducer offering simple and accurate control, whilst being extremely easy install and maintain.

TECHNICAL DATA:

Gas, Liquid or Steam Service • DN15 to DN50 or G1/2 to G2 Connections • Up to 40 BAR Inlet Pressure • 0.02 – 12 BAR Outlet Pressure • 5 to 22 m³/h KVS Values • Up to +190°C Temperature • Stainless Steel Construction • Sense Line Connection

FEATURES & BENEFITS:

Fast Delivery • Fully Customisable • Ease of Maintenance • Long Operational Life Span • ATEX Version Available

LPH SERIES

Non-Adjustable Flow Monitors



ChemTec

The LPH series non-adjustable flow monitor provides a cost-effective solution for all applications.

TECHNICAL DATA:

Available from 50 up to 45,300 SCC/M (Air) or 1 to 2,200 ML/M (Water) • 1/8" – 1/4" FNPT Ports (as Standard) • Stainless Steel, Brass, Acrylic or Teflon® Construction • Electrical Conduit Optional • Range of Switch Options

FEATURES & BENEFITS:

Compact Design • Economical Pricing (OEM) • Close On/Off Differential • No Seals Required • Visual Indication (with Acrylic model) • In-line vertical plumbing

LNGBV SERIES

Pressure Regulators for LNG Applications



METATRON®
Powertronic Clean Gas Technologies

The LNG1 and LNG1-BV series is an over-pressure regulator designed and manufactured for liquid methane applications.

TECHNICAL DATA:

Piston operated with dynamic seals • 5 to 25 BARG Inlet Pressure • 3.9 to 9 BARG Outlet Pressure • 58 Kg/hr (CH4) @ 15 BARG • -40 to +120°C Temperature • Aluminium Body Material • Particle Protection Screen Available

FEATURES & BENEFITS:

ECE-R110 Approved • "First of it's kind" for OEM applications • High reliability and durability for installation on LNG vehicles • Ease of installation • Cost-Effective • Custom designed solutions on request

Product Solutions

AS2 SERIES

Gas and Liquid Separators



MANKENBERG

The AS2 series centrifugal separators use the cyclone principle to automatically separate liquids, solids and steam from gas flows whilst the system is pressurised.

TECHNICAL DATA:

DN15 to DN50 or G1/2 to G2" Connections • 16 BAR Nominal Pressure • 0 – 13 BAR Operating Pressures • Up to 1,200 L/hr Collection Efficiency • Up to +190°C Temperature • For Gases and Steam

FEATURES & BENEFITS:

Inline Design with Drain Outlet • Built-In Steam Trap • Compact and Lightweight Design • Corrosion Resistant Stainless Steel • Up to 99% Separation Performance • Suitable for Vacuum Systems

STS SERIES

See-Through Liquid Separators



SOLBERG
Innovative Separation Systems

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The STS series straight-through liquid separator is used for filtration of inlet air with potentially harmful liquid and large particulate utilising a baffling mechanism and directional air flow change.

TECHNICAL DATA:

For Medium Vacuum Service • From 1" to 4" Connection Sizes • -26 to +104°C Temperature • Corrosion Resistant Cast Aluminium Head with Knock-Out Baffle

FEATURES & BENEFITS:

Compact Design for Space Restrictions • Shatter-Resistant Polycarbonate Drop Down Bucket • Float Capsule for Emergency Shutoff • Reduced Piping Costs with "T" Style Configuration

SC SERIES

Side Channel Air Blowers



Euro Vacuum Products

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The SC series single stage side channel blowers are one of the most popular and effective ways to produce large volumes of clean, dry compressed air and to generate a partial vacuum.

TECHNICAL DATA:

From 40 to 1,050 m³/h Flow • -345 to +470 mBAR Pressure • 0.2 to 18.5 kw • Suitable for Vertical and Horizontal Operation • Up to +40°C Temperature • Integrated Safety Relief and Non-Return Valve Optional

FEATURES & BENEFITS:

Maintenance Free • Increased Performance with VSD • Dynamically balanced to ensure absolute vibration free operation • Environmentally Safe

MAO SERIES Manual Reset Excess Flow Valves



ChemTec

The MAO series flow meter is ideal for measuring very low flow rates of corrosive and non-corrosive liquids in a variety of harsh and demanding applications.

TECHNICAL DATA:

Available from 0 up to 3.5 ml/min (Water) • 1/2" FNPT Ports (as Standard)
• Teflon, Stainless Steel or Brass Construction • -18 to +82°C Temperature
• Up to 3,000 PSIG Pressure (Material Dependant)

FEATURES & BENEFITS:

Single Moving Part • No Bearings • In-line Flow Metering • No Rotating Internals • Analogue, Digital and Current Loop Output • Measures Very Low Flows

TWL SERIES Resistance Thermometers



HART
COMMUNICATION PROTOCOL

PROFIBUS
DP

Fieldbus
FOUNDATION



The TWL series resistance thermometers comprise a rugged installation fitting made of stainless steel with thread, flange or weld-on connections with a removable measuring element.

TECHNICAL DATA:

-80 to +600°C Measuring Temperature Range | 4 to 20 mA Analogue or Resistance Output | Up to 5,000mm Thermowells | Includes PT100 Sensor Class A or B | G1/2 or 1/2" NPT Standard Connection | ATEX Version Available

FEATURES & BENEFITS:

Digital communication with HART®, Profibus® or Fieldbus® • Removable Measuring Element • Can be maintained whilst installed

DVH SERIES Vortex Flow Meters



HART
COMMUNICATION PROTOCOL



The DVH vortex flowmeter utilises a velocity, temperature and pressure sensor to measure mass flow rates in food and beverage pipelines.

TECHNICAL DATA:

Up to 970 m³/h (Liquids), 9034 Nm³/h (Air) and 5797 kg/h (Steam) • Up to DN200 and ANSI 8" • 4-20 mA, HART® Protocol and Modbus Outputs • Up to 100 BAR ABS • ATEX Approved

FEATURES & BENEFITS:

HART Enabled • Integrated temperature and pressure measurement • Measurement of mass and density optional

Product Solutions

3100 SERIES

Thin Film Pressure Transducers



The 3100 Series is ideal for OEMs that require consistent high levels of performance, reliability and stability utilising the sputtered thin film technology.

TECHNICAL DATA:

Pressure Ranges from 0 – 7 BAR up to 2,200 BAR • High Proof Pressures • Broad Choice of Outputs and Pressure Ports • Pressure and Temperature Measurement Combination • RoHS Compliant • From -40 to +125°C Temperature Ranges

FEATURES & BENEFITS:

Unbeatable Price/Performance Ratio • Compact Design • OEM Discount Available

PS71 SERIES

General Purpose Mini Pressure Switches



The PS71 series are versatile general purpose switches with snap action microswitches that can be used in a wide range of hydraulic and pneumatic applications.

TECHNICAL DATA:

From 10 to 5,000 PSIG Adjustable Pressure Ranges • Zinc-Plated Steel or 316 Stainless Steel Construction • Range of Pressure Fittings, Electrical Terminations and Special Options • Factory Pre-setting Available

FEATURES & BENEFITS:

Unbeatable Price/Performance Ratio • Compact Design • OEM Discount Available

ELS-1150 SERIES

Electro-Optic Level Switches



The ELS-1150 compact electro-optic level switch can be used for critical fluid level monitoring in beverage storage tanks.

TECHNICAL DATA:

Nickel-Plated and Stainless Steel Housing • Wet and Dry Probe Condition at Current Sink • FM Explosion Proof version available • 2500 PSI Rated • -40°C to +100°C Temperature Range

FEATURES & BENEFITS:

OEM Discount Available • Unbeatable Price/Performance Ratio

LS-7 SERIES Single Point Level Switches



The LS-7 series compact side mounted level switches are low-cost units that are ideal for high volume use in small tanks and vessels.

TECHNICAL DATA:

Various mounting configurations and threads • Polypropylene, Nylon, Versaplast™ and 316 Stainless Steel Materials • Range of Pressures and Temperatures to suit your requirements

FEATURES & BENEFITS:

Low Cost OEM Pricing • High Reliability • Compact Size • FDA Compliant Materials Available

SURESITE SERIES Visual Level Indicators



The SureSite visual level indicators are available in standard and miniature sizes, as well as LED and high performance versions for the most demanding marine applications.

TECHNICAL DATA:

Customised lengths up to 6.1M • Stainless Steel Construction • 24, 48 or 290 BAR Versions • Up to +399°C Temperature • Range of connections and accessories

FEATURES & BENEFITS:

LED Version Available • Built to your specifications

LNG SERIES Sample Vaporisers



The LNG sample vaporiser assembly has been used in many successful applications requiring heating of a process stream sample prior to analysis to prevent freeze up.

TECHNICAL DATA:

Inlet Pressures up to 6,000 PSIG • Outlet Pressures from 10 to 500 PSIG • Four seat material options • Standard Cv of 0.06 (0.025 or 0.20 also available) • Range of Heater Wattage capacities • Electric or Steam Heated • CSA and ATEX Approved

FEATURES & BENEFITS:

Unique spiral wrapped heat exchange element provides up to 100 square inches of heat transfer area • Optional TCO heating cartridge and proportional controller • Modular pressure control

Product Solutions



PRESSURE GAUGES

Including Mechanical and Digital Pressure Gauges and Indicators



INSTRUMENTATION VALVES

Including Ball, Needle, Plug, Check, Toggle, Relief and Quick Connects



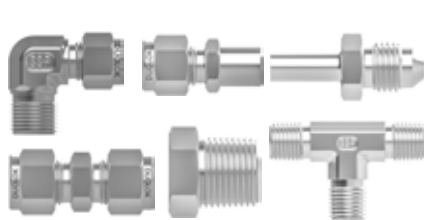
MANIFOLD VALVES

Including Block, Bleed, Vent and Gauge Manifolds



CONTROL VALVES

A range of pneumatic and electric Globe, Bellows and Control Valves



INSTRUMENTATION FITTINGS

Including Twin Ferrule Compression Tube, Pipe and Weld Fittings



HIGH PURITY FITTINGS

Including FaceSeal™, Microweld and PFA/PTFE Fittings



FILTERS, STRAINERS & SEPARATORS

A range of filters, strainers and separators for process and vacuum



BURSTING DISKS

Including forward and reverse acting bursting disks and holders



TUBING, PIPING AND HOSES

A selection of metal tubing, hoses and PTFE/PFA piping.



PRESSURE SWITCHES

Including Mechanical and Digital Pressure Switches and Sensors



SOLENOID VALVES

Including miniature, latching and cryogenic versions.



WIRES & SEALS

Including feedthroughs, sealing glands and packing glands.



CUSTOM SOLUTIONS

Boiswood have been involved in several custom build projects to meet our customers' specific requirements, please visit our website to read our application successes or feel free to ask for more details.

Many of our customers call upon us for subassembly, service, repair and testing solutions from within our manufacturer-certified headquarters.



Our partner, Solberg, has become synonymous with quality filtration solutions in most industrial market segments where rotating equipment is used for the movement of air. We can help you with:

Inlet Air Filtration and Silencing

Pneumatic equipment needs protection to ensure years of reliable performance and proper filtration is essential to prevent costly pump failures and downtime. Our complete line of inlet filters and filter silencers offer quick and cost-effective options for protecting equipment and work environments where noise is a concern.



Vacuum Process Filtration & Separation

When it comes to vacuum systems, selecting the proper filtration and separation components is essential to ensure pump system longevity, reduce maintenance costs, and maximise process uptime. Solberg has the product solutions and expertise to help you optimise your process..

Oil Mist Eliminators

In critical continuous-duty applications, equipment uptime is a priority. Solberg's oil mist eliminators are engineered to help engine and equipment operators maximise uptime and reduce maintenance. Solberg is committed to providing engine and turbine operators with the products and support that they need to succeed.



Liquid Separators



Gas Scrubbers



Pneumatic
Drain Systems



Powered Crankcase
Ventilation Systems

Products in Focus



Our partner, Eurovacuum Products, is a market leader for vacuum pump solutions, liquid ring vacuum pumps and claw type vacuum pumps and compressors. We can help with the design,

supply and install of high quality, bespoke pumping solutions for vacuum and positive low-pressure systems.



Side Channel Air Blower



Claw Vacuum Pumps



Liquid Ring Vacuum Pump



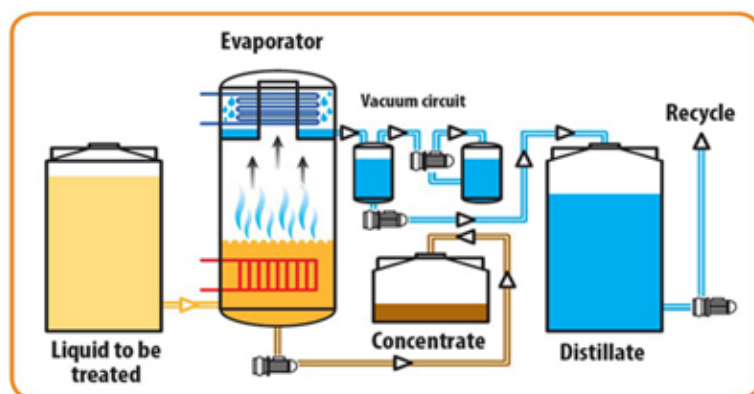
Rotary Vane Pumps



Turbo Molecular Pumps



Centrifugal Fans



Evaporators

Evaporation is a process that is utilised in countless industries, from water and food processing to chemical and metal recovery. Vacuum evaporation allows this process to be carried out at reduced energy costs, and enables the process to be utilised across a wide range of industries. As experts in vacuum and air moving, we supply a wide range of vacuum systems and support to enable industrial vacuum evaporation processes.

Products in Action



Model	31/32 EA/EP	31/32 IS	22/26 IC	5000	PAS	PAD
Description	Explosion Proof Pressure Transducers	Intrinsically Safe Pressure Transducers	Intrinsically Safe Pressure Transducers	Low Pressure Transducer	Pressure Transmitter	Pressure Transmitter
Approvals	ATEX Exd (EA Model) CSA (EP Model)	ATEX Exia IECEx Exia	ATEX Exia	ATEX Exia (With Galvanic Barrier)	ATEX Exd	ATEX Exd
Key Features	Cost Effective High Proof Pressures Broad Choice of Configurations RoHS Complaint	Cost Effective Broad Choice of Configurations High Reliability and Stability	Submersible & Wash Down Enclosures High Stability CVD Sensing Element Broad Choice of Configurations	High Proof Pressures Robust Case Construction Submersible and General Purpose Versions	Digital Comms with HART® Protocol Self-Diagnostic Function Long-Term Stability High Rangeability	Digital Comms with HART® Protocol Long-Term Stability Low Span Ranges
Pressure Type	Gauge and Sealed	Gauge and Sealed	Gauge, Absolute, and Compound	Gauge	Gauge and Absolute	Differential, Gauge and Absolute
Pressure Ranges (Showing Min/Max Ranges)	100 to 10,000 PSI 7 to 1,000 BAR	100 to 25,000 PSI 7 to 1,600 BAR	-15 to 6,000 PSI -1 to 400 BAR	10 to 415" WC 25 to 1,000 mBAR 0.36 to 15 PSI	-1 to 600 BAR	0.75 mBAR to 413.7 BAR
Accuracy	0.25% FS	0.25% FS	0.25% FS 0.15% FS	0.25% FS	0.075% FS	0.075% FS
Operating Temperature Range	-40 to +95°C	-40 to +80°C	-40 to +125°C (Termination Dependant)	-40 to +100°C (Termination Dependant)	-40 to +120°C	-40 to +120°C
Output	4 – 20 mA 0 to 5 V 0 to 10 V 1 – 6 V 1 – 5 V 0.5 – 4.5 V (Ratiometric)	4 – 20 mA 0 to 5 V 0 to 10 V 1 – 6 V 1 – 5 V 0.5 – 4.5 V (Ratiometric)	4 – 20 mA 0 to 5 V 0 to 10 V 1 – 6 V 1 – 5 V 0.5 – 5.5 V	4 – 20 mA 0 to 5 V 1 – 6 V 1 – 5 V 0.1 – 5.1 V 0.5 – 5.5 V	4 – 20 mA with HART® Protocol	4 – 20 mA with HART® Protocol
Electrical Terminations	1/2" NPT Explosion Proof Conduit	Industrial DIN 9.4mm M12 x 1P (4-PIN) Large DIN (43650A) Cable Version Industrial DIN Deutsch DT04-4P Packard MetriPack	Industrial DIN IP67 Cable Gland Fixed Plug 10-6 Fixed Plug 8-4 1/2" NPT Conduit Immersible Cable	Fixed Plug DIN 43650 M12 x 1 (5-PIN) IP68 Immersible Cable 1/2" NPT Conduit	1/4" NPT G1/2" (Epoxy-Polyester Painted Aluminum)	1/4" NPT G1/2" (Epoxy-Polyester Painted Aluminum)
Pressure Fittings	G1/4" External 1/8" Male NPT 1/2" Male NPT 7/16" External (SAE) M14 x 1.5 Schrader SAE #4	G1/4" External 1/8" Male NPT 7/16" External (SAE) M12 x 1.5 (6G) Schrader SAE #4	G1/4" External 1/8" Male NPT 1/2" Male NPT G3/8" Manometer R1/4" External Sink Weight Cone	G1/4" External G1/4" Internal 1/8" Male NPT KF25 Flange Sink Weight Cone 7/16" External (UNF)	1/2" Female NPT (Special On Request)	1/4" Female NPT (Special On Request)
Wetted Materials	17-4 PH SS	17-4 PH SS	17-4 PH SS	318 Duplex SS	316L Stainless Steel Hastelloy®-C	316L Stainless Steel
Other Configurations	With Restrictor Cal Certificates Oxygen Cleaning	With Restrictor Cal Certificates Oxygen Cleaning	Galvanic or Zener Cal Certificates Oxygen Cleaning	Specific Calibration Lloyds Register	mBAR Ranges Oxygen Cleaning Diaphragm Seals Special Calibration	mBAR Ranges Oxygen Cleaning Diaphragm Seals Special Calibration

Products in Focus

KA2 Condensate Trap



The condensate trap KA2 ATEX specially been designed for draining compressed air and gases (e.g. biogas).

The simple design makes it easy to specify, install, handle and service these valves in an industrial environment.

Steam traps automatically drain condensate without loss of steam or gas. They operate instantaneously and are not affected by backpressure or pressure fluctuations. They do not require an external energy input.

The KA2 ATEX is a float-controlled steam trap for the use in potentially explosive atmospheres and is suitable for aggressive condensates or for the food industry. It is completely made of stainless steel with excellent corrosion resistance. The valve is soft-sealed and therefore technically gas-tight.

The top and bottom sections of the valve body are connected by a clamp ring and two bolts. Servicing/ maintenance is easy and does not call for special tooling.



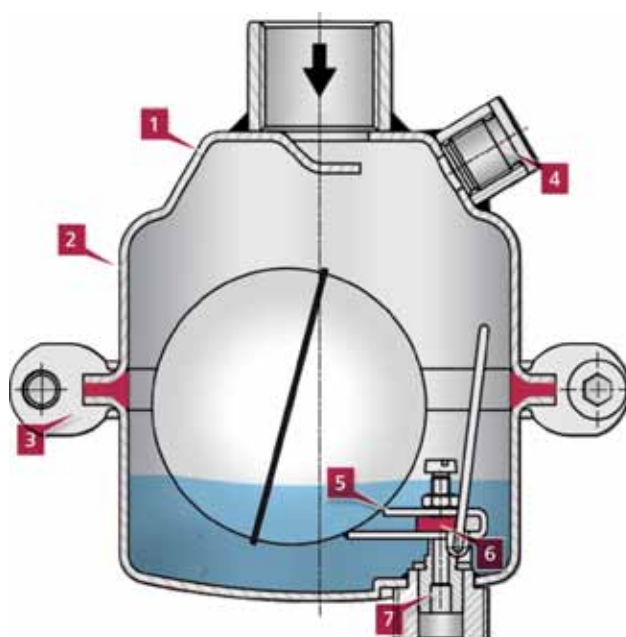
Features & Benefits

1. Deep Drawn CrNiMo-Steel (316L), corrosion resistant, lightweight and compact.

Manageable installation, minimal space required and low delta ferrite content.

2. < 1.6 µm Standard Ra Surface Finish. Easy to Clean.

3. Mankenberg Clamp System. Easy to Maintain.



3. Connection for pressure compensation line. Optimal pressure compensation.

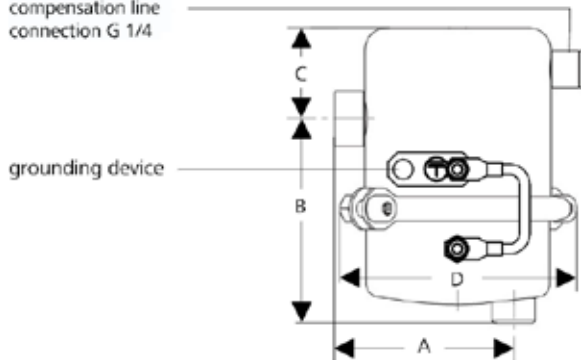
4. Pressure and corrosion resistant internal parts of deep drawn CrNiMo-Steel (316L). Long operational life span.

5. Soft Seal. Valve is tight even when unpressurised.

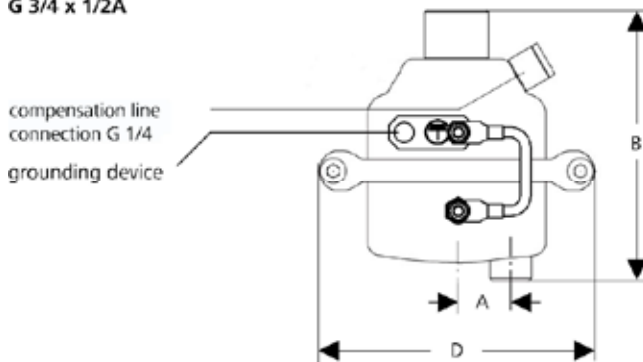
6. Sturdy valve mechanism. Low maintenance.

Technical Data

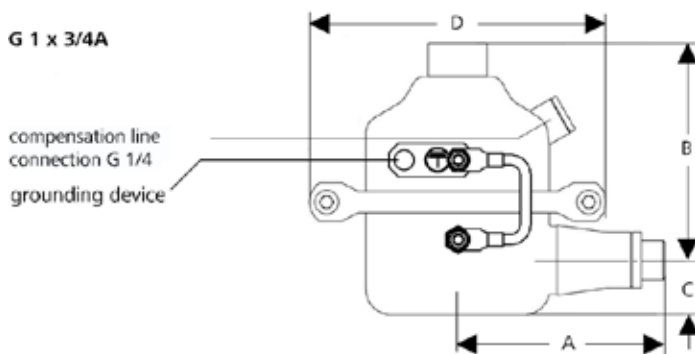
G 1/2 x 1/2A
compensation line
connection G 1/4



G 3/4 x 1/2A



G 1 x 3/4A



DIMENSIONS (mm)

Size	G1/2 x G1/2A	G3/4 x G1/2A	G1 x G3/4A
A*	87	27	140
B*	100	135	145
C	45	-	40
D	140	140	200
E	G1/4	G1/4	G1/4

*Overall length tolerances in acc. with DIN EN 558

WEIGHTS (kg)

G1/2 x G1/2A	G3/4 x G1/2A	G1 x G3/4A
1.1	0.85	2.6

MATERIALS

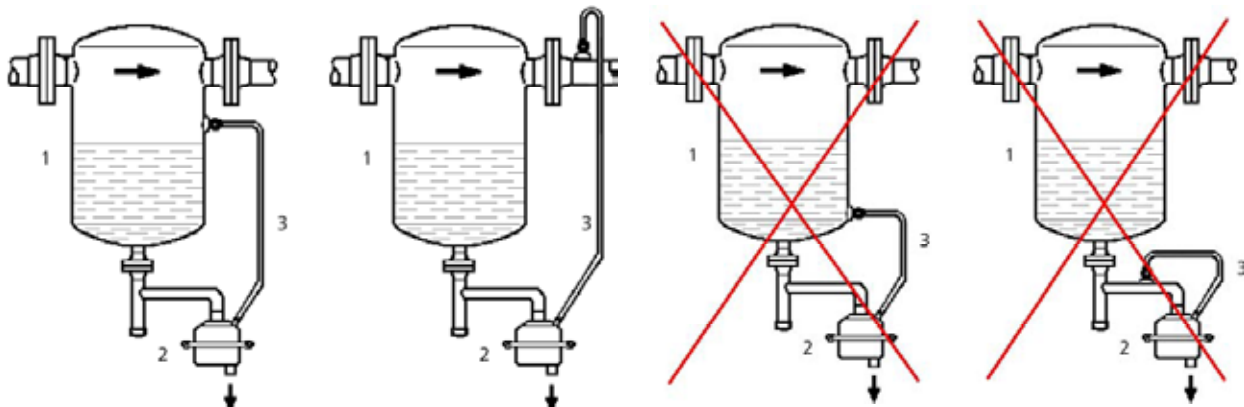
Body, Seat & Float	1.4404 (316L)
Seals	FKM (Others on request)
Screws & Nuts	A4-70 & A4

FLOW RATES (l/h)*

ΔP (BAR)	G1/2 x G1/2A	G3/4 x G1/2A	G1 x G3/4A
0.02	30		150
0.05	50		240
0.1	70		350
0.2	100		490
0.5	160		780
1	230		1,100
2	350		1,570

*Based on cold condensate at 20°C

RECOMMENDED INSTALLATION



Products in Action

UK Water Network Project

Boiswood supported a key water network with mechanical design efforts to provide a viable and bespoke solution to a problem involving traces of tar being found in the water supply lines. This problem was causing massive issues to operations on-site.

Boiswood worked with engineers to adjust the seal materials on the specified KA2 condensate traps and other related pipeline valves to be able to withstand the harsh conditions of the applications media.

THP (Thermal Hydrolysis Plant) and AER (Advanced Energy Recovery) are forward thinking, advanced technologies that will help towards a green and energy efficient economy. Boiswood is pleased to have been a part of this project and as a result, our KA2 condensate traps have been successfully specified and are continuing to operate trouble-free with fantastic reviews from site operations managers and maintenance coordinators.



The Ability to Grasp Wastewater Treatment

In the 1800's there was a disease called Cholera, it was uncontrollable and no one, not even doctors could establish its origin. It killed over 23,000 people just in Britain. 30 years later the world was taught by a French biologist, microbiologist and chemist 'Louis Pasteur', how microbes could move through the water sources, causing them to carry the deadly disease. Following this, the world did try to make a difference by inserting filtration systems that were put into practice, however this sadly became unsuccessful due to the water containing a variety of contaminants.

It became known that by allowing untreated wastewater to flow into the rivers was the cause of the Cholera Pandemic disease in the 1800's. So today the chemical chlorine is used on the wastewater to ensure the water is clean before being distributed. Today it is extremely unheard of for anyone to become ill from contamination, this is due to the increased level of technology we have, which ensures the wastewater can be safely moved to rivers. With today's chemicals and improved specialised equipment, it means there are multiple procedures we can follow to ensure there is no contaminated water.

ChemTec, one of our partners, specialise in manufacturing flow monitors for wastewater companies.

The Equipment

These flow monitors and meters have been engineered in a way that can produce a unique effect on the cleansing of wastewater. The feeding system for treating the water use chemical dosing.

The flow rates of the water can fluctuate; therefore, we can tailor our products to your needs. There are three main types of equipment that these are mainly used on; non-adjustable FS series, the adjustable LCA series and the MAO series flow meters - they are available in PVC, Brass and 316 Stainless Steel to reduce corrosion resistance.

The FS models will accept flows between 0.25 to 8.50 GPM, the LCA models will take 0.1 – 15.0 GPM and the MAO 125/250 and MAO 500 0.32-28.53 gallons per hour or 1.89 – 13.25 gallons per hour.



The Process

In a cleansing system, the wastewater has chlorine gas administered into it, it then relies on the current of the water. If the current is moving at a fast pace it pulls in the gas and this mixes together so the water is disinfected thoroughly.

The water current must be moving fast enough to ensure the chemicals mix with the water properly to ensure it is disinfected. The system relies on this so our flow monitors and meters may be used.

The water filtration system includes these monitors. They are used to ensure that the current of the water is consistent and can signal an alarm if it sees a change.




Pressure Regulators, Self Acting Control Valves,
Pressure Sensors & Switches, Safety Relief Valves,
Gauges & Manometers




Flow Meters, Switches & Control Valves, Solenoid
Valves, UHP & Cryogenic Valves, Excess Flow
Valves, Filters, Strainers, Pumps & Mixers




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