

► Our technology. Your success.
Pumps · Valves · Service



Product Portfolio

Control Valves



Type Series Index

ACTAIR EVO	22
AMTROBOX	24
AMTROBOX ATEX Zone 22	24
AMTROBOX Ex ia	24
AMTROBOX R Ex ia	25
AMTROBOX M	24
AMTROBOX R	24
AMTRONIC U	25
BOA-CVE C/CS/W/IMS/EKB/IMS EKB	14
BOA-CVE H	14
BOA-CVP H	14
BOAX-B	20
DANAĪS 150	19
DYNACTAIR EVO	22
HQ EVO	21
ISORIA 10/16	18
ISORIA 20/25	19
KE	20
MIL 10000	15
MIL 21000	16
MIL 27000	16
MIL 29000	16
MIL 35500	16
MIL 37-38	23
MIL 400L	25
MIL 41000	16
MIL 496	25
MIL 50000	17
MIL 67-68	23
MIL 70000	17
MIL 71000	17
MIL 7400	26
MIL 74000	17
MIL 76000	17
MIL 77000	18
MIL 78000	18
MIL 8013	26
MIL 81000	18
MIL 91000	18
MIL 95-96	23
MultiTurn SA+GS / SAR+GS	21
NORI 160	14
NORI 40	14
NORI 500	15
QuarterTurn AQ, AQL / SQ	21
SISTO-16/-16S	15
SISTO-20	15
SISTO-C	15
SISTO-C LAP	23
SISTO-LAD	22
SISTO-LAE	21
SISTO-LAP	22
SMARTRONIC U AS-i	26
SMARTRONIC U MA	26
SMARTRONIC U PC	27
TRIODIS 150	19
TRIODIS 300	19
ZJSVA/ZXSVA	20

Our goal:

Quality down to the smallest detail

At KSB, customer satisfaction, safety and reliability take top priority when it comes to quality assurance. Besides ensuring compliance with international quality standards, all KSB pumps and valves have to fulfil even higher internal quality standards.

Our integrated quality management system includes a detailed evaluation process for our production sites and suppliers worldwide. As a KSB customer, you can therefore rest assured that no matter where or when you order, you will always experience consistently high quality. Thanks to our continuous improvement process, we produce pumps and valves with a long service life, excellent efficiency and low wear – as guaranteed by our internal certification system and the “Made by KSB” quality seal.

How KSB puts quality into daily practice

- Quality is when our customers are satisfied: We focus all of our efforts on our customers. Our global customer satisfaction analysis shows us how well we’re doing.
- Quality is what every employee delivers: Everyone at KSB plays a part in creating a positive customer experience. To ensure the best results, all employees undergo continuous professional development.
- Quality is how processes interlock: We continuously check and improve work processes and the working environment.
- Quality is what our supply chain contributes: We set our quality targets in cooperation with our partners. This helps us raise quality across the entire supply chain to the highest level.
- Quality is how mistakes are dealt with: If we detect quality deviations, we determine the causes in order to eliminate them permanently.



As a signatory to the United Nations Global Compact, KSB is committed to the ten principles of the international community in the areas of human rights, labour standards, environmental protection and anti-corruption.



Acting responsibly – producing sustainably

From energy-efficient products to resource-efficient production, we protect the environment with a wide range of measures while also helping our customers to reduce their CO₂ emissions.



We aim to minimise our impact on the environment and to reduce our energy consumption and carbon dioxide emissions to a minimum when manufacturing our pumps and valves. At the same time, KSB's products make a direct contribution towards protecting the environment, for example by saving energy.

Sustainability has two aspects: protecting the environment during the production of our products, and the ecological footprint of our products and services during their life cycle. At KSB, we attach great importance to both.

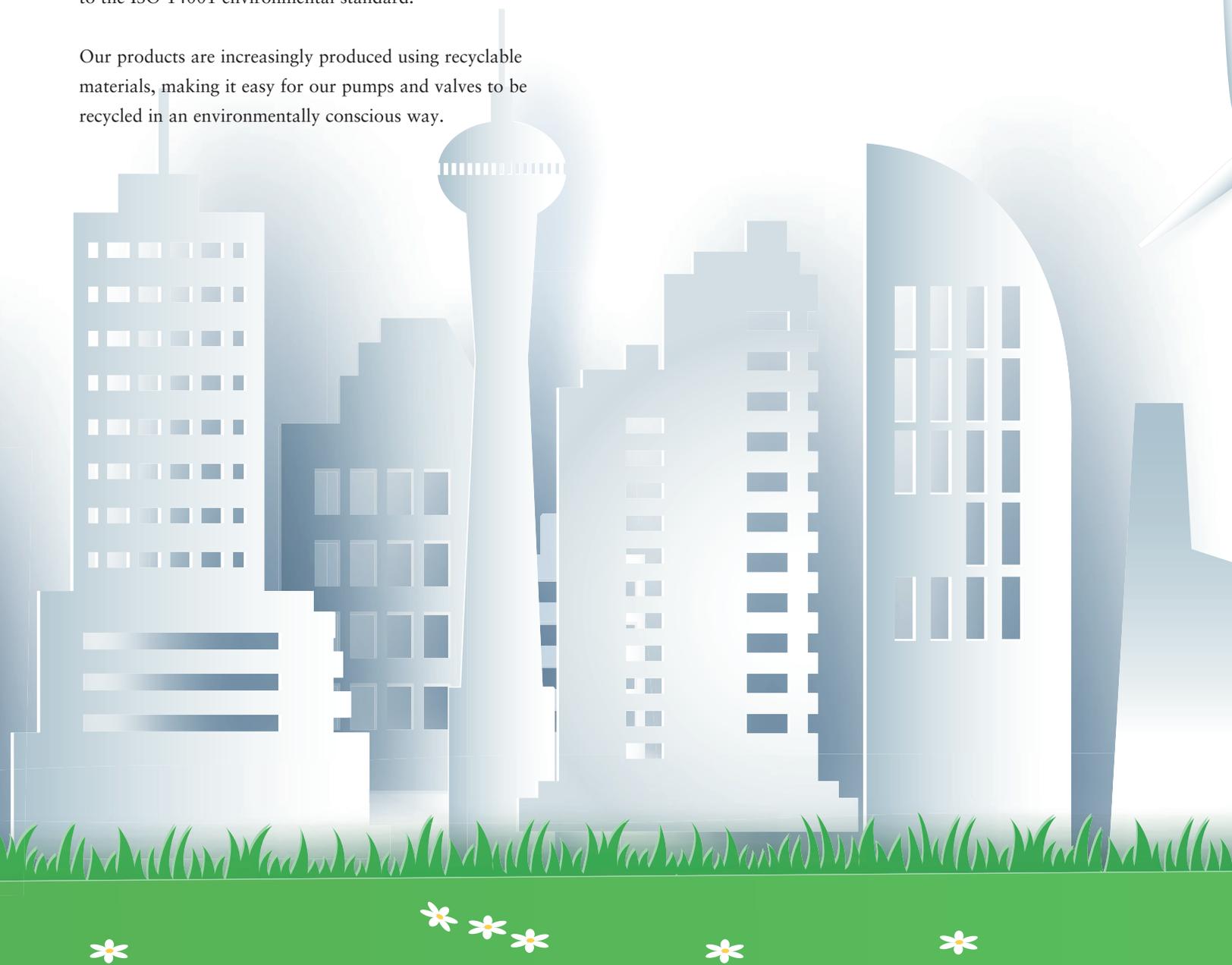
In order to lessen the environmental impact of our manufacturing, we ensure that our production processes minimise energy and material consumption. We take ecological aspects into account right from the beginning of every new development and comply with international standards to measure and continuously improve our environmental performance. Our sustainability principles are binding for all Group locations and companies. All KSB factories are certified to the ISO 14001 environmental standard.

Our products are increasingly produced using recyclable materials, making it easy for our pumps and valves to be recycled in an environmentally conscious way.

When in operation, our energy-efficient products help save large amounts of electricity and thus greenhouse gases. This makes them attractive to our customers from both an environmental and a financial point of view – especially as around 30 percent of the electricity consumed by industry is still related to the use of pumps.

There is also high potential for savings by combining pumps and valves with digital components. For example, variable speed water pumps are particularly energy-efficient and reduce annual CO₂ emissions by 850,000 tonnes in Europe alone.

As a holistic and sustainable company, we tap into our engineering skills to develop products that are particularly energy-efficient and reliable. Minimal downtime and low energy consumption are key factors for ensuring economical operation – strong reasons for choosing KSB pumps and valves. At KSB, combining economic and ecological goals is not just a goal but reality in practice.



KSB valve brands

In addition to the KSB umbrella brand, the Group offers valves under the following brands:

amri

Butterfly valves

The AMRI brand is used in building services, industry, water applications and power stations. AMRI products include pneumatic, hydraulic and electric actuators as well as control systems.

SISTO

Diaphragm valves

The SISTO brand handles shut-off tasks in building services, industry, water applications and power stations. Under the SISTO brand name, KSB offers specialised valves for sterile processes including biotech applications.

MIL

Control valves

The MIL brand is used in nuclear and fossil-fuelled power plants, refineries and the petrochemicals and chemicals industry. MIL products include pneumatic actuators and control systems.



Everything under control: the KSB control valve portfolio

KSB's portfolio of control valves covers a wide range of requirements from many different applications. Alongside our technical expertise and know-how, customer focus plays a key role in everything we do. This is reflected in our product portfolio. We are very familiar with our customers' needs and offer innovative solutions for closed- and open-loop valve control in fluid processes.

Our products cater to the requirements of light industrial applications through to building services and water transport projects just as efficiently as they cope with the harshest conditions in the oil and gas as well as power plant sectors. Our valves meet all relevant quality standards and directives.

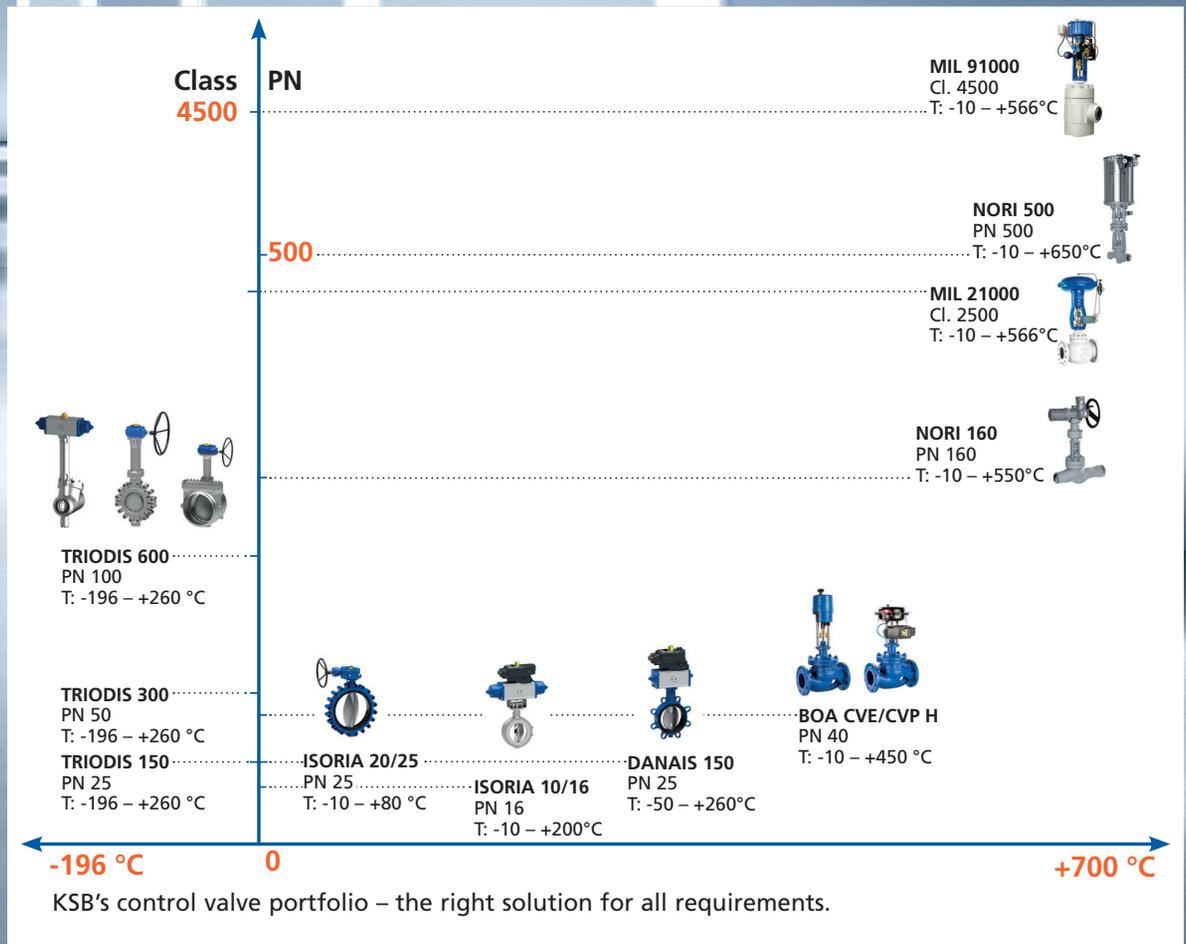
Visit our online product catalogue at www.ksb.com/products for an overview of our control valve range and additional information.



KSB – your specialist for innovative valve solutions

Our intelligent positioners and control units such as AMTRONIC U and SMARTRONIC U perfectly complement our control valve portfolio, handling your process data, controlling your valves and enhancing performance. They offer a wide range of functionalities and are highly versatile.

Function	Product	Special feature	Applications
Process control	SMARTRONIC U PC	4 programmable functions	Industry
Positioning	SMARTRONIC U AS-i SMARTRONIC U MA SMARTRONIC U MA Ex ia	Digital electro-pneumatic positioner with intuitive and user-friendly interface for local control, ATEX-compliant (ATEX II 1 G)	Water Waste water Energy
On/off control	AMTRONIC U AMTRONIC U Ex ia	Position signalling and compressed air supply integrated in a single unit, ATEX-compliant (ATEX II 1 G)	Marine Oil and gas



The power. To win over challenges.

With proven expertise across sectors including thermal, nuclear, fertilizer, oil & gas, petrochemicals and other core industries, KSB is equipped to cater to severe conditions prevalent in various process industries and provide novel concepts and customized solutions for tough process control applications in all industry sectors.

Energy Sector

KSB's credentials have proved that its control valves can deliver high performances at both captive power plants and utility power plants including supercritical units from 660 MW to

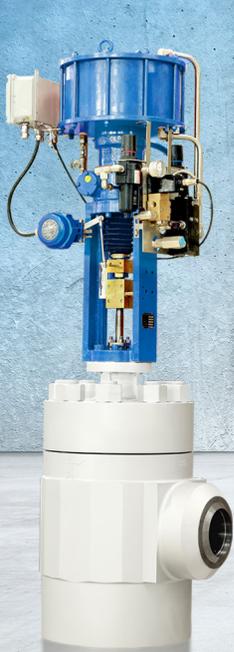
1000 MW. KSB can cater to the most demanding design challenges and applications, including those in nuclear and combined cycle power plants, thereby powering the power generation industry.



Start-up Feedwater Control valve
MIL 91000, 14", 3000# ASME

Severe service applications catered	Coal fired Supercritical (upto 1000 MW)	Coal fired Subcritical (upto 600 MW)	Combined Cycle (upto 1000 MW)	Nuclear (upto 700 MW)
Start-up Feed Control	☒	☒	☒	☒
BFP Min. Flow Control	☒	☒	☒	☒
Seperator Level Control Valve	☒	N.A	N.A	N.A
Boiler Circulation Control	☒	N.A	N.A	N.A
Soot Blower Pressure Reduction	☒	☒	N.A	N.A
SH/RH Spray	☒	☒	☒	☒
Aux. PRDS Package	☒	☒	☒	☒
HP Turbine / Boiler Drain	☒	☒	☒	☒
Heater Drain & Condensate System	☒	☒	☒	☒
HP / LP Bypass	☒+	☒+	☒+	☒++

+ Through alliance partner ++ Alternatively uses Atmospheric Steam Discharge / Condenser Steam Dump valves
N.A: Not applicable for the sector



BFP Min. Recirculation Control valve
MIL 91000, 12", 3200# ASME



Seperator Level Control valve
MIL 71000, 12", 2500# ASME



Soot Blower Pressure Reduction Control valve
MIL 91000, 4", 3100# ASME

Industry Sector

Control valves have become key components in offshore and onshore oil & gas industry, both upstream and downstream where applications are demanding due to the high pressure and adverse corrosive conditions experienced on production platforms and refineries. The indelible imprint of KSB quality has

made its mark in the Indian fertilizer industry as well, with Ammonia, Urea let down valves and Low noise valves for steam applications that are being used at renowned facilities. We have the distinction of being associated with the supply of Cryogenic control valves including Bellows sealed & Vacuum jacketed valves for LNG terminals and Cryogenic test facilities.

Severe service applications catered	Oil & Gas (upstream)	Refinery	LNG/Petrochemical/ Chemical/ Fertilizer	Oil / Refinery Products (transportation)
Hydrocarbon service	☒	☒	☒	☒
Hydrogen service	☒	☒	☒	N.A
Antisurge Control	☒	☒	☒	N.A
Hot / Cold HP Separator Letdown	☒	☒	N.A	N.A
Cryogenic service	N.A	☒	☒	N.A
Water / Steam / Gas Injection	☒	N.A	N.A	N.A
Amine / Carbamate Letdown	N.A	☒	☒	N.A
HP Ammonia Letdown	N.A	N.A	☒	N.A
Urea Service	N.A	N.A	☒	N.A
High Pressure CO ₂	N.A	N.A	☒	N.A
HP Pump Recirculation	☒	☒	☒	☒
Micro Flow	☒	☒	☒	N.A
HP Steam Vent	☒	☒	☒	N.A



MIL 41000 Series, 20", 600# ASME valve with Electro-hydraulic actuator supplied to Refinery Pipeline Augmentation Project



Hot High Pressure Separator Level Control valve
MIL 77000, 4"X6", 1500# ASME



Amine Regeneration Control valve
MIL 78000, 6", 1500# ASME



Charge Gas Compressor Antisurge valve
MIL 41000, 20", 150# ASME

General Information

Regional products	<p>Not all depicted products are available for sale in every country. Products only available in individual regions are indicated accordingly. Please contact your sales representative for details.</p>
Key to actuators	<p>In the Products section the symbol ● in conjunction with the relevant letter indicates the actuator type(s) available.</p> <ul style="list-style-type: none"> ● m = manual (lever, handwheel, gearbox, etc.) ● e = electric actuator ● p = pneumatic actuator ● h = hydraulic actuator
Trademark rights	<p>All trademarks or company logos shown in the catalogue are protected by trademark rights owned by KSB SE & Co. KGaA and/or a KSB Group company. The absence of the "®" symbol should not be interpreted to mean that the term is not a registered trademark.</p>
Product information	 <p>For information as per chemicals Regulation (EC) No. 1907/2006 (REACH), see https://www.ksb.com/en-global/company/corporate-responsibility/reach.</p>
Digital product catalogue	 <p>https://www.ksb.com/en-gb/global-search</p>

Valves

Design/Application	Type series	Page	Automation	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals / Food
Control valves to DIN/EN	BOA-CVE C/CS/IMS/EKB/IMS EKB	14	■	■	■		■		
	BOA-CVE H	14	■		■	■	■		
	BOA-CVP H	14	■		■	■	■		
	NORI 40	14	■		■	■	■		
	NORI 160	14	■		■	■			
	NORI 500	15	■		■	■			
	SISTO-16/-16S	15	■	■	■	■			
	SISTO-20	15	■		■	■			■
	SISTO-C	15	■	■					■
Control valves to ANSI/ASME	MIL 10000	15	■		■				
	MIL 21000	16	■	■	■	■	■		■
	MIL 27000	16	■	■	■		■		■
	MIL 29000	16	■		■	■			■
	MIL 35500	16	■	■	■				
	MIL 41000	16	■	■	■	■			■
	MIL 50000	17	■		■				
	MIL 70000	17	■		■	■			
	MIL 71000	17	■		■	■			
	MIL 74000	17	■			■			
	MIL 76000	17	■		■	■			
	MIL 77000	18	■		■				
	MIL 78000	18	■		■	■			
	MIL 81000	18	■		■	■			
MIL 91000	18	■		■	■				
Butterfly control valves	ISORIA 10/16	18	■	■	■	■	■	■	■
	ISORIA 20/25	19	■	■	■	■	■	■	■
	DANAÍS 150	19	■	■	■	■	■	■	
	TRIODIS 150	19	■		■	■			
	TRIODIS 300	19	■		■	■			
Centred-disc butterfly valves	BOAX-B	20	■	■	■		■		
	KE	20	■	■	■				■
Start and stop control valves to DIN/EN	ZJSVA/ZXSVA	20	■		■	■			

Actuators

Design/Application	Type series	Page	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals / Food
Electric actuators	QuarterTurn AQ, AQL / SQ	21	■	■	■			
	MultiTurn SA+GS / SAR+GS	21	■	■	■			
	SISTO-LAE	21	■	■	■	■	■	■
Hydraulic actuators	HQ EVO	21	■	■	■			

Design/Application	Type series	Page	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals / Food
Pneumatic actuators	ACTAIR EVO	22	■	■	■			
	DYNACTAIR EVO	22	■	■	■			
	SISTO-LAD	22	■	■	■	■	■	
	SISTO-LAP	22	■	■	■	■	■	
	SISTO-C LAP	23						■
	MIL 37-38	23	■	■	■	■		■
	MIL 67-68	23	■	■	■			
	MIL 95-96	23	■	■				

Automation

Design/Application	Type series	Page	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals / Food
Monitoring	AMTROBOX	24	■	■	■			
	AMTROBOX Ex ia	24	■	■	■			
	AMTROBOX ATEX Zone 22	24	■	■	■			
	AMTROBOX M	24	■	■	■	■		
	AMTROBOX R	24	■	■	■			
	AMTROBOX R Ex ia	25	■	■	■			
	MIL 400L	25	■	■	■	■		■
	MIL 496	25	■	■	■	■		■
ON/OFF valve controllers	AMTRONIC U	25	■	■	■			
Positioners	SMARTRONIC U MA	26	■	■	■			
	SMARTRONIC U AS-i	26	■	■	■			
	MIL 7400	26	■	■	■	■		■
	MIL 8013	26	■	■	■	■		■
Intelligent positioners	SMARTRONIC U PC	27	■	■	■			

The valves can be fitted with actuators from specific manufacturers or accessories as per customer requirements.

Control valves to DIN/EN

BOA-CVE C/CS/W/IMS/EKB/IMS EKB



PN	6/10/16	Description Control valve to DIN/EN based on standard type series BOA-Compact, BOA-SuperCompact, BOA-W, BOA-Compact EKB, BOA-Control IMS and BOA-Control IMS EKB, bonnetless pressure-retaining body, soft-seated. Leakage rate selectable from 0.05 % to drop-tight, Kvs values between 6.3 and 700 m ³ /h and closing pressures of up to 16 bar. With intelligent microprocessor-controlled and pre-set electric actuators providing actuating forces from 1000 N to 14,000 N; electronic configuration of flow characteristic, Kvs value, actuating signal and actuating time using PC tool or manual parameterisation unit. Customised configuration can be implemented at the KSB factory on request.
DN	15 - 200	
T [°C]	≥ -10 - ≤ +120	
		Applications Hot-water heating systems up to 120 °C. Ventilation and air-conditioning systems. Water supply systems, drinking water. Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and uncoated cast iron. Other fluids on request.
e		https://www.ksb.com/en-gb/lc/B04A

BOA-CVE H



PN	16/25/40	Description Service-friendly control valve to DIN/EN with flanged ends, either with linear or equal-percentage control characteristic at Kvs values of 0.1 to 630 m ³ /h and closing pressures of up to 40 bar; all internal parts are easy to replace without special tools, including the reversible seat; noise level reduced by standard two-stage pressure reduction combining a parabolic plug and multi-hole cage; with electric actuator.
DN	15 - 200	
T [°C]	≥ -10 - ≤ +450	
		Applications General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.
e		https://www.ksb.com/en-gb/lc/B26A

BOA-CVP H



PN	16/25/40	Description Service-friendly control valve to DIN/EN with flanged ends, either with linear or equal-percentage control characteristic at Kvs values of 0.1 to 630 m ³ /h and closing pressures of up to 40 bar; all internal parts are easy to replace without special tools, including the reversible seat; noise level reduced by standard two-stage pressure reduction combining a parabolic plug and multi-hole cage; with pneumatic actuator.
DN	15 - 200	
T [°C]	≥ -10 - ≤ +450	
		Applications General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.
p		https://www.ksb.com/en-gb/lc/B72A

NORI 40



PN	25/40	Description Globe valve to DIN/EN with flanged, butt weld or socket weld ends, with electric or pneumatic actuators to customer specification, with gland packing, with on/off disc or throttling plug, non-rotating stem, integrated position indicator, seat/ disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.
DN	10 - 200	
T [°C]	≥ -10 to ≤ +450	
		Applications In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.
e, p		https://www.ksb.com/en-gb/lc/N05A

NORI 160



PN	63 - 160	Description Globe valve to DIN/EN with flanged, butt weld or socket weld ends, with electric or pneumatic actuators to customer specification, with gland packing, with on/off disc or throttling plug, non-rotating stem, integrated position indicator, seat/ disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.
DN	10 - 200	
T [°C]	≥ -10 to ≤ +550	
		Applications In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.
e, p		https://www.ksb.com/en-gb/lc/N13A

NORI 500



PN	250 - 500
DN	10 - 65
T [°C]	≥ -10 to ≤ +650

Description

Globe valve to DIN/EN with flanged, butt weld or socket weld ends, with electric or pneumatic actuators to customer specification, with gland packing, with or without back seat, with throttling plug, non-rotating stem, integrated position indicator, seat/disc interface made of Stellite.

Applications

In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

e, p

<https://www.ksb.com/en-gb/lc/N21A>

SISTO-16/-16S



PN	16
DN	15 - 300
T [°C]	≥ -10 to ≤ +160

Description

Diaphragm valve to DIN/EN or with short face-to-face length (BS) with flanged ends, with pneumatic or electric actuator; shut-off and sealing to atmosphere by supported and confined diaphragm; body with or without lining, position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications

Shut-off or control duties in building services, industrial plants and power stations; suitable for drinking water, service water, air, oil, technical gases; from fluids handled in the food and beverages industry to abrasive and aggressive products in chemical and process engineering.

e, p

<https://www.ksb.com/en-gb/lc/S40A>
<https://www.ksb.com/en-gb/lc/S42A>

SISTO-20



PN	16
DN	15 - 300
T [°C]	≥ -20 to ≤ +160

Description

Diaphragm valve to DIN/EN with flanged ends, with pneumatic or electric actuator; shut-off and sealing to atmosphere by supported and confined diaphragm; body with or without lining, position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications

Shut-off or control duties in building services, industrial plants and power stations; suitable for drinking water, service water, air, oil, technical gases; from fluids handled in the food and beverages industry to abrasive and aggressive products in chemical and process engineering.

e, p

<https://www.ksb.com/en-gb/lc/S44A>

SISTO-C



PN	16
DN	6 - 200
T [°C]	≥ -20 to ≤ +160

Description

Diaphragm valve with butt weld ends or clamps; in straight-way, Y or T pattern, or as a multi-port valve, with pneumatic piston actuator; shut-off and sealing to atmosphere by confined diaphragm. No dead volumes, suitable for sterilisation, SIP/CIP-compliant design, visual position indicator. All moving parts are separated from the fluid by the diaphragm. Maintenance-free

Applications

Shut-off and control duties in biotechnology, pharmaceutical industry, sterile processes, food and beverages industry.

p

<https://www.ksb.com/en-gb/lc/S46A>

Control valves to ANSI/ASME

MIL 10000



Class	150 - 1500
NPS [inch]	¾ - 16
T [°C]	≥ -29 - ≤ +454

Description

The top- and bottom-guided double-ported control valve is characterised by a high permissible pressure drop across the valve. The high flow capacity typical of this design is attained with low pressure recovery. Bi-directional flow is permitted; wide flow passage, suitable for viscous fluids.

Applications

Industry, power stations, process engineering.

e, h, p

<https://www.ksb.com/en-gb/lc/M15A>

MIL 21000



Class	150 - 2500
NPS [inch]	½ - 12
T [°C]	≥ -196 - ≤ +540

Description
Top-guided single-ported heavy post-guided control valve for a wide temperature range.

Applications
Industry, power stations, process engineering.

e, h, p

<https://www.ksb.com/en-gb/lc/M57A>

MIL 27000



Class	150 - 300
NPS [inch]	½ - 4
T [°C]	≥ -27 - ≤ +427

Description
Compact and light-weight construction, rugged stem guiding, field-reversible actuator, tight shut-off.

Applications
The globe valve is used in industrial segments with moderate pressure drop for handling fluids with a low solids content, viscous fluids in refineries, and fluids in the petrochemical, pharmaceutical, chemical, and bio-medical industries where accurate monitoring and control of the valve position is critical as it affects product quality.

p

<https://www.ksb.com/en-gb/lc/M31A>

MIL 29000



Class	150 - 1500
NPS [inch]	½ - 1
T [°C]	≥ -100 - ≤ +343

Description
Compact microflow globe valves with high rangeability (500:1), quick-change trim for on-site adjustment of flow coefficient, rugged cage-style plug guide; anti-cavitation design available.

Applications
Industry, power stations, process engineering (e.g. fine control of spray water), chemical, petrochemical and pharmaceutical engineering.

p

<https://www.ksb.com/en-gb/lc/M32A>

MIL 35500



Class	150 - 300
NPS [inch]	1 - 12
T [°C]	≥ -29 - ≤ +200

Description
Uni-directional control ball valve with single-piece body for high flow rates with modified equal-percentage characteristic. Available with leakage classes IV, V (metal-seated) and VI (soft-seated) to FCI 70.2.

Applications
Ideally suited for clean/dirty fluids, slurries and high-viscosity fluids in control applications and applications with low differential pressure. Flow characteristics can be adjusted by varying the angle of the V-notch in the ball. The sharp edges of the V-notch obturator provide excellent shearing action; suitable for fluids containing fibres, slurries and high-viscosity fluids.

e, h, p

<https://www.ksb.com/en-gb/lc/MC5A>

MIL 41000



Class	150 - 3000
NPS [inch]	½ - 32
T [°C]	≥ -196 - ≤ +566

Description
Cage-guided single-ported heavy-duty control valves, high pressure drop capability; noise reduction and anti-cavitation solution available by replacing the standard cage.

Applications
Industry, power stations, process engineering, chemical and petrochemical engineering.

e, h, p

<https://www.ksb.com/en-gb/lc/M37A>

MIL 50000



Class	150 - 600
NPS [inch]	½ - 4
T [°C]	≥ -250 - ≤ -27

Description

Cryogenic control valves with extended body, rugged guided extended valve plug, body-bonnet bolting outside the cold box.

Applications

Used in LNG terminals, storage tanks during transport and storage, bench testing of cryogenic engines for rockets and space shuttles, LPG production and processing plants, etc.

e, h, p

<https://www.ksb.com/en-gb/lc/M38A>

MIL 70000



Class	150 - 2500
NPS [inch]	½ - 10
T [°C]	≥ -100 - ≤ +566

Description

Top-guided single-ported heavy-duty control valves in angle pattern.

Applications

Industry, power stations, process engineering, chemical and petrochemical engineering

e, h, p

<https://www.ksb.com/en-gb/lc/M40A>

MIL 71000



Class	150 - 3000
NPS [inch]	½ - 32
T [°C]	≥ -196 - ≤ +566

Description

Cage-guided single-ported high-performance angle valve.

Applications

Industry, power stations, process engineering, chemical and petrochemical engineering.

e, h, p

<https://www.ksb.com/en-gb/lc/M53A>

MIL 74000



Class	150 - 2500
NPS [inch]	3 - 24
T [°C]	≥ -29 - ≤ +566

Description

Steam conditioning valve offering reliable temperature control and better noise attenuation.

Applications

Bypass to district heating, auxiliary PRDS, process steam applications, turbine bypass, process dump.

e, h, p

MIL 76000



Class	150 - 2500
NPS [inch]	1 - 2
T [°C]	≥ -27 - ≤ +566

Description

The letdown control valves in angle pattern are designed for all applications where flashing (flash evaporation) or two-phase (liquid and gaseous) flows may occur; no body/trim erosion, vibration or noise. Due to its angle pattern, the globe valve is self-draining.

Applications

Industry, power stations, process engineering, chemical and petrochemical engineering.

e, h, p

<https://www.ksb.com/en-gb/lc/M54A>

MIL 77000



Class	600 - 2500
NPS [inch]	2 - 8
T [°C]	≥ -27 - ≤ +566

Description

Multi-stage low-noise control valve with labyrinth trim.

Applications

Industry, power stations (e.g. start/bypass valve), process engineering, chemical and petrochemical engineering (e.g. control valve at hot high-pressure separators (HHPs)).

e, h, p

<https://www.ksb.com/en-gb/lc/M60A>

MIL 78000



Class	150 - 2500
NPS [inch]	½ - 6
T [°C]	≥ -29 - ≤ +260

Description

Multistage control valve in anti-cavitation design with wear-resistant multistage trim and detachable flow bush / spacer.

Applications

Industry, power stations, process engineering, chemical and petrochemical engineering.

e, h, p

<https://www.ksb.com/en-gb/lc/M64A>

MIL 81000



Class	150 - 2500
NPS [inch]	¾ - 12
T [°C]	≥ -30 - ≤ +454

Description

Three-way combining and diverting control valves.

Applications

Building services, industry, power stations.

e, h, p

<https://www.ksb.com/en-gb/lc/M65A>

MIL 91000



Class	150 - 3400
NPS [inch]	¾ - 12
T [°C]	≥ -29 - ≤ +566

Description

Multistage multi-path control valve with Matrix trim; pressures of up to 420 bar can be reduced by up to 50 pressure reduction stages, preventing cavitation and greatly reducing fluid velocity.

Applications

Industry, power stations, process engineering, chemical and petrochemical engineering.

e, h, p

<https://www.ksb.com/en-gb/lc/M76A>

Butterfly control valves

ISORIA 10/16



PN [bar]	10/16
DN	40 - 1000
T [°C]	≥ -10 to ≤ +200

Description

Centred-disc butterfly valve with ISO 5211 compliant square shaft end, sealed by elastomer liner (EPDM, Viton®, silicone, nitrile, etc.), with lever, manual gearbox, pneumatic, electric or hydraulic actuator. Wafer-type body (T1), semi-lug body (T2), full-lug body (T4) or U-section body with flat faces (T5). Body types T2, T3, T4 and T5 are suitable for downstream dismantling. Dead-end service with counterflange possible with all body types Connections to EN, ASME, JIS.

Applications

Energy, water extraction, water treatment, general irrigation, seawater desalination / reverse osmosis, cooling circuits, mining, food and beverage industry, chemical industry, process engineering, shipbuilding, sugar industry, fire-fighting systems.

m, e, h, p + AMTROBOX/AMTRONIC U/SMARTRONIC U

<https://www.ksb.com/en-gb/lc/I00A>

ISORIA 20/25



PN [bar]	20/25
DN	32 - 1000
T [°C]	≥ -10 to ≤ +200

Description

Centred-disc butterfly valve with ISO 5211 compliant square shaft end, sealed by elastomer liner (EPDM, Viton®, silicone, nitrile, etc.), with lever, manual gearbox, pneumatic, electric or hydraulic actuator. Wafer-type body (T1), semi-lug body (T2), full-lug body (T4) or U-section body with flat faces (T5). Body types T2, T3, T4 and T5 are suitable for downstream dismantling. Dead-end service with counterflange possible with all body types. Connections to EN, ASME, JIS.

Applications

Energy, water treatment, cooling circuits, seawater desalination / reverse osmosis, flue gas desulphurisation, washing plants, general irrigation, shipbuilding, sugar industry, pressure boosting, etc.

● m, e, h, p + AMTROBOX/AMTRONIC U/SMARTRONIC U

<https://www.ksb.com/en-gb/lc/102A>

DANAIS 150



PN [bar]	≤ 25
or Class	150
DN	50 - 1200
T [°C]	≥ -50 to ≤ +260

Description

Double-offset butterfly valve with plastomer seat ring (also in fire-safe design) or metal seat ring, with pneumatic, electric or hydraulic actuator and SMARTRONIC U positioner, body made of cast steel or stainless steel, wafer-type body (T1) or full-lug body (T4). The T4 body type is suitable for dead-end service and downstream dismantling. Connections to EN, ASME, JIS.

Applications

Petroleum, gas, chemical and petrochemical industry, nuclear power stations, sugar industry, paper industry, geothermal energy, shipbuilding, low-pressure steam, vacuum service. All applications requiring offset-disc butterfly valves.

● e, h, p + Smartronic

<https://www.ksb.com/en-gb/lc/D01A>

TRIODIS 150



PN [bar]	≤ 20
or Class	150
DN	80 - 1200
T [°C]	≥ -196 to ≤ +260

Description

Triple-offset butterfly valve, metal-seated (fire-safe), without gland packing, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of steel or stainless steel, full-lug body (T4), flanged body (T7) with flat or raised faces, body with butt weld ends (BWSE). Body types T4 and T7 are suitable for dead-end service. Connections to EN, ASME or JIS. Connections to ASME: Schedule 10S, 10, STD and XS to NPS for valves with butt weld ends (other connections on request). Fugitive emissions performance tested and certified to EN ISO 15848-1. Certified to German TA Luft Technical Guidelines on Air Quality Control. Fire-safe design tested and certified to EN ISO 10497 (BS 6755 - API 6FA). ATEX-compliant version in accordance with Directive 2014/34/EU. In compliance with NACE MR0175 / ISO 15156 and MR 0103.

Applications

Natural gas liquefaction. All liquefied gases. Heat transfer fluids, oil, gas, petrochemical industry, tank farms, refineries, onshore and offshore plants.

● e, h, p + Smartronic

<https://www.ksb.com/en-gb/lc/T09A>

TRIODIS 300



PN [bar]	≤ 50
or Class	300
DN	80 - 1200
T [°C]	≥ -196 to ≤ +450

Description

Triple-offset butterfly valve, metal-seated (fire-safe), without gland packing, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of steel or stainless steel, full-lug body (T4), flanged body (T7) with flat or raised faces, body with butt weld ends (BWSE). Body types T4 and T7 are suitable for dead-end service. Connections to EN, ASME or JIS. Connections to ASME: Schedule 40S and STD to NPS for valves with butt weld ends (other connections on request). Fugitive emissions performance tested and certified to EN ISO 15848-1. Certified to German TA Luft Technical Guidelines on Air Quality Control. Fire-safe design tested and certified to EN ISO 10497 (BS 6755 - API 6FA). ATEX-compliant version in accordance with Directive 2014/34/EU. In compliance with NACE MR0175 / ISO 15156 and MR 0103.

Applications

Natural gas liquefaction. All liquefied gases. Heat transfer fluids, aggressive fluids, oil, gas, petrochemical industry, tank farms, refineries, onshore and offshore plants.

● e, h, p + Smartronic

<https://www.ksb.com/en-gb/lc/T11A>

Centred-disc butterfly valves

BOAX-B



PN	10/16
DN	40 - 1000
T [°C]	≥ -10 - ≤ +110

Description

Centred-disc butterfly valve with ISO 5211 compliant square shaft end, sealed by elastomer liner (EPDM XC / XU or nitrile K), with lever, manual gearbox, pneumatic or electric actuator; semi-lug body (T2), full-lug body (T4). Body types T2 and T4 are suitable for downstream dismantling and dead-end service. Valve disc made of nodular cast iron or stainless steel. Connections to EN.

Applications

Engineering contractors. General water circuits, fuel oil, oil. Shut-off and control duties in water management, water supply and water treatment, drainage and irrigation.

 m, e, p + AMTROBOX/AMTRONIC U/SMARTRONIC U

<https://www.ksb.com/en-gb/lc/B16A>

KE



PN	10
DN	40 - 600
T [°C]	≥ -20 - ≤ +200

Description

Centred-disc butterfly valve with ISO 5211 compliant square shaft end and PFA liner. With lever, manual gearbox, pneumatic or electric actuator. With wafer-type body (T1), full-lug body (T4) or U-section body with raised faces (T6). EN, ASME, JIS connections possible.

Applications

In the chemical industry, highly corrosive fluids: toxic and highly corrosive fluids which cannot be handled by metals or elastomers, thus requiring the sole use of PFA. Moderately corrosive and aggressive fluids allowing the use of a PFA liner with a stainless steel valve disc. Fluids requiring absolutely safe handling.

 m, e, h, p + AMTROBOX/AMTRONIC U/SMARTRONIC U

<https://www.ksb.com/en-gb/lc/K02A>

Start and stop control valves to DIN/EN

ZJSVA/ZXSVA



PN	≤ 600
DN	65/60 - 250/125
T [°C]	≥ -10 - ≤ +650

Description

Start and stop control valve to DIN/EN, with butt weld ends, pressure seal design, billet-forged body, seat/disc interface made of wear and corrosion resistant Stellite, single-piece stem and throttling plug assembly for high differential pressures.

Applications

In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

 m, e, p

<https://www.ksb.com/en-gb/lc/Z06A>

Electric actuators

MultiTurn SA+GS / SAR+GS



Multi-turn actuator
Enclosure
Output torque [Nm]
T [°C]

SA+GS, SAR+GS
IP68
≤ 125000
≥ -30 - ≤ +70

Description

AUMA electric multi-turn actuators with manual gearbox for direct mounting on quarter-turn valves (actuator flange to ISO 5211). For on/off or control duties. Integrated local control or remote control.

Applications

Water engineering, energy engineering and industry

<https://www.ksb.com/en-gb/lc/MD1A>

QuarterTurn AQ, AQL / SQ



Quarter-turn actuator
Enclosure
Output torque [Nm]
T [°C]

AQ, AQL / SQ
IP68
≤ 1200
≥ -30 - ≤ +70

Description

BERNARD CONTROLS or AUMA electric quarter-turn actuators for direct mounting on quarter-turn valves (actuator flange to ISO 5211). For on/off or control duties. Integrated local control or remote control.

Applications

Water engineering, energy engineering and industry

<https://www.ksb.com/en-gb/lc/Q02A>

SISTO-LAE



Type
Multi-turn actuator
Enclosure
Output torque [Nm]

AUMA
IP67
≤ 250

Description

Multi-turn actuators for valves with rising stem, max. closing force 60,000 N, configurable as a function of flow characteristics and valve travel; open/closed-position feedback.

Applications

Building services, industry, power stations, food industry, chemical industry.

<https://www.ksb.com/en-gb/lc/S62A>

Hydraulic actuators

HQ EVO



Output torque [Nm]
Enclosure
T [°C]

≤ 55000
IP68
≥ -45 - ≤ +100

Description

Single-acting or double-acting hydraulic actuator (gas cartridge or spring) for mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 160 bar. Mounts on valves with square or flat shaft end. Force transmission via rack-and-pinion or scotch-yoke kinematics provides output torques of up to 55,000 Nm which are ideal for actuating quarter-turn valves. Equipped with a visual position indicator and adjustable travel stops for open/closed position as standard. Optional manual override. Can be equipped with a hydraulic power unit: for shut-off, as a safety block, ESD block, as a bypass device enabling manual override. Can be combined with all limit switch boxes of the AMTROBOX/AMTROBOX R type series.

Applications

Marine

 AMTROBOX

<https://www.ksb.com/en-gb/lc/H15B>

Pneumatic actuators

ACTAIR EVO

	Output torque [Nm] at a control pressure of 6 bar	≤ 8000	Description Double-acting pneumatic actuator for mounting on quarter-turn valves with ISO 5211 compliant shaft ends (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 8 bar. Force transmission via scotch-yoke kinematics provides output torques of up to 8000 Nm which are ideal for actuating quarter-turn valves. Equipped with a visual position indicator and, depending on the actuator size, adjustable travel stops for open/closed position or closed position as standard. Optional separate or integrated manual override. Suitable for mounting control unit type series AMTROBOX, AMTRONIC U, SMARTRONIC U or any other device with an interface to VDI/VDE 3845.
	Enclosure T [°C]	IP68 $\geq -50 - \leq +150$	
			https://www.ksb.com/en-gb/lc/A59C

DYNACTAIR EVO

	Output torque [Nm] at a control pressure of 6 bar	≤ 4000	Description Single-acting pneumatic actuator for mounting on quarter-turn valves with ISO 5211 compliant shaft ends (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 8 bar. Force transmission via scotch-yoke kinematics provides output torques of up to 4000 Nm which are ideal for actuating quarter-turn valves. Reset to fail-safe position in case of control air failure is effected by means of spring assemblies. Equipped with a visual position indicator and, depending on the actuator size, adjustable travel stops for closed position or open/closed position as standard. Optional separate or integrated emergency manual override. Suitable for mounting control unit type series AMTROBOX, AMTRONIC U, SMARTRONIC U or any other device with an interface to VDI/VDE 3845.
	Enclosure T [°C]	IP68 $\geq -50 - \leq +150$	
			https://www.ksb.com/en-gb/lc/D09C

SISTO-LAP

	Control air pressure [bar] Closing force [N]	5,5 - 10 ≤ 250000	Description Piston actuator in heavy-duty design for mounting on valves with a linear stem movement (globe valves, diaphragm valves and gate valves). Actuator flange to DIN/ISO 5210. Available in single-acting spring-to-close or spring-to-open design, or double-acting air-to-open/air-to-close design; suitable for mounting limit switches or positioners to suit customer requirements.
			https://www.ksb.com/en-gb/lc/S63A

SISTO-LAD

	Control air pressure [bar] Closing force [N]	≤ 6 ≤ 20000	Description Diaphragm actuator in compact design for mounting on valves with a linear stem movement (globe valves, diaphragm valves and gate valves). Available in single-acting spring-to-close or spring-to-open design, or double-acting air-to-open/air-to-close design; suitable for mounting limit switches or positioners to suit customer requirements.
			https://www.ksb.com/en-gb/lc/S64A

SISTO-C LAP

	Control air pressure [bar] Closing force [N]	5,5 - 7 ≤ 20000	Description Piston actuator made of high-grade stainless steel for use on diaphragm valves. Available in single-acting spring-to-close or spring-to-open design, or double-acting air-to-open/air-to-close design; suitable for mounting limit switches or positioners to suit customer requirements, factory-mounted. Settings are adjusted during factory test run. Applications Biotechnology, pharmaceutical industry, sterile processes, food and beverage industry.
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MIL 37-38

	Permissible pressure [psi] Stroke [inch] NPS	65 ≤ 4 11 - 24	Description MIL 37 (fail-safe position: spring-to-close) and MIL 38 (fail-safe position: spring-to-open) are pneumatic single-spring diaphragm actuators for linear valves. Applications Ideally suited for all KSB MIL control valves with travels ranging from 0.125 to 4 inches; shut-off and control duties in industry, power stations, process engineering, chemical and petrochemical engineering.
			https://www.ksb.com/en-gb/lc/M79A

MIL 67-68

	Permissible pressure [psi] Stroke [inch] NPS	100 < 12 6 - 24	Description High-power high-performance double-acting piston actuator suitable for high supply air pressures (up to 100 psi; system air, natural gas or other non-corrosive gaseous fluids can be used). Applications Ideally suited for all KSB MIL control valves requiring greater power or stroke. Shut-off and control duties in industry, power stations, process engineering, chemical and petrochemical engineering.
			https://www.ksb.com/en-gb/lc/M80A

MIL 95-96

	Torque range T [°C]	90 - 27000 ≥ -10 - ≤ +93	Description Actuators for control duties and on/off applications. Particularly suitable for rotary valves such as trunnion-mounted ball valves, segmented ball valves, butterfly valves and eccentric plug valves. Available in double-acting (MIL 95) and single-acting spring-return (MIL 96) configuration. Applications Preferred actuator for rotary control valve applications. Variation between start/end torque and run torque minimised for better controllability. Provided with four keyways for different actuator mounting positions.
			https://www.ksb.com/en-gb/lc/MC6A

Monitoring

AMTROBOX

	Enclosure T [°C]	IP65/IP67/IP68 ≥ -20 - ≤ +80	<p>Description Multi-functional AMTROBOX limit switch box. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX mounts on KSB manual gearboxes, pneumatic actuators and hydraulic actuators.</p> <p>Applications Water engineering, building services and energy engineering</p>
			https://www.ksb.com/en-gb/lc/A34A

AMTROBOX Ex ia

	Enclosure T [°C]	IP67 ≥ -10 - ≤ +50	<p>Description Multi-functional AMTROBOX limit switch box. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX Ex ia: intrinsically safe version for potentially explosive atmospheres.</p> <p>Applications Water engineering, building services and energy engineering</p>
			https://www.ksb.com/en-gb/lc/A34A

AMTROBOX ATEX Zone 22

	Enclosure T [°C]	IP67 ≥ -10 - ≤ +60	<p>Description Multi-functional AMTROBOX limit switch box. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX ATEX Zone 22: ATEX-compliant version for potentially explosive dust atmospheres (Zone 22).</p> <p>Applications Water engineering, building services and energy engineering</p>
			https://www.ksb.com/en-gb/lc/A34A

AMTROBOX M

	Enclosure T [°C]	IP65 ≥ -20 - ≤ +80	<p>Description Limit switch box specially designed for manual actuation. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX M mounts on the S, CR and CM series of quarter-turn levers (R1020) and manual gearbox types MA 12 and MA 25 (R1021).</p> <p>Applications Water engineering, building services and energy engineering</p>
			https://www.ksb.com/en-gb/lc/A46A

AMTROBOX R

	Enclosure T [°C]	IP68 ≥ -45 - ≤ +80	<p>Description Sturdy and multi-functional. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX R mounts on KSB manual gearboxes, pneumatic actuators, hydraulic actuators and any actuators with VDI/VDE interface.</p> <p>Applications Water engineering, energy engineering, offshore plants and heavy industry</p>
			https://www.ksb.com/en-gb/lc/A47A

AMTROBOX R Ex ia



Enclosure
T [°C]

IP68
≥ -25 - ≤ +80

Description
Sturdy and multi-functional. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX R Ex ia: intrinsically safe version for potentially explosive atmospheres (Zones 0 + 21).

Applications
Water engineering, energy engineering, offshore plants and heavy industry

<https://www.ksb.com/en-gb/lc/A47A>

MIL 400L



Enclosure
T [°C]

IP65
≥ -20 to ≤ +80

Description
MIL 400L electronic position transmitters are designed for transmitting the linear or rotary movement of control valve stems by means of a 4-20 mA output signal. To ensure a high level of accuracy, MIL 400L designs operate on the LVDT (Linear Variable Differential Transformer) principle.

Applications
For continuous actual-position feedback.

<https://www.ksb.com/en-gb/lc/M14A>

MIL 496



Enclosure
T [°C]

IP65
≥ -50 to ≤ +80

Description
MIL 496 rotary limit switches (with SPDT/DPDT microswitches or proximity sensors) are used for electrically signalling one or two pre-defined positions of control valve travel. They can be connected to acoustic or optical alarm equipment in order to signal a valve or system malfunction or to actuate solenoids, relays and other electrical devices.

Applications
Indication of open/closed/intermediate valve positions.

<https://www.ksb.com/en-gb/lc/M88A>

ON/OFF valve controllers

AMTRONIC U



Enclosure
Control air pressure [bar]
T [°C]

IP67
3 - 8
≥ -20 - ≤ +80

Description
On/off control of pneumatic quarter-turn actuators and open/closed position signalling. Mounts directly on ACTAIR EVO / DYNACTAIR EVO actuators with a universal baseplate, providing a rugged, compact and integrated solution. Its integrated directional control valve eliminates the need for any pneumatic lines between AMTRONIC U and the actuator. The actuating time of the actuator can be set via AMTRONIC U's air flow reducer. AMTRONIC U can be connected to Profibus DP or AS-i field buses. AMTRONIC U has been specially developed to reduce control unit cabling. Connection via field bus enables both power supply and control information exchange with the process control system.

Applications
Water engineering, energy engineering and industry

<https://www.ksb.com/en-gb/lc/A63B>

Positioners

SMARTRONIC U MA

	<p>Enclosure IP67 Control air pressure [bar] 2 - 8 T [°C] $\geq -20 - \leq +80$</p>	<p>Description Digital electro-pneumatic positioner powered via the 4-20 mA signal. Mounts on ACTAIR EVO / DYNACTAIR EVO actuators with direct compressed air supply, or on any type of quarter-turn actuator with VDI/VDE 3845 interface and linear actuators with NAMUR interface. SMARTRONIC U MA reduces investment, commissioning and operating costs as no air is consumed in idle state.</p> <p>Applications Water engineering, energy engineering and industry</p>
https://www.ksb.com/en-gb/lc/S05B		

SMARTRONIC U AS-i

	<p>Enclosure IP67 Control air pressure [bar] 3 - 8 T [°C] $\geq -20 - \leq +80$</p>	<p>Description Digital electro-pneumatic positioner for connection to an AS-i field bus. Certified by AS International. Mounts on ACTAIR EVO / DYNACTAIR EVO actuators with direct control air supply, or on any type of quarter-turn actuator with VDI/VDE 3845 interface and linear actuators with NAMUR interface.</p> <p>Applications Water engineering, energy engineering and industry</p>
https://www.ksb.com/en-gb/lc/S03B		

MIL 7400

	<p>Control air pressure [bar] 1 - 5 T [°C] ≥ -50 to $\leq +80$</p>	<p>Description MIL 7400 pneumatic positioners employ a force balance system to ensure that the position of the valve plug is directly proportional to the controller output signal pressure, regardless of gland friction, diaphragm actuator hysteresis or off-balance forces on the valve plug.</p> <p>Applications Universally used for valve positioning using a pneumatic control signal.</p>
https://www.ksb.com/en-gb/lc/M81A		

MIL 8013

	<p>Enclosure IP66 T [°C] ≥ -30 to $\leq +80$</p>	<p>Description MIL 8013 electro-pneumatic positioners provide precise and reliable valve positioning and superior dynamic response by directly comparing the valve stem position with the controller's DC output signal. The resulting dynamic response and positioning accuracy exceeds that of any sensor/pneumatic positioner combination.</p> <p>Applications Universally used for valve positioning using an electrical control signal.</p>
https://www.ksb.com/en-gb/lc/M83A		

Intelligent positioners

SMARTRONIC U PC



Enclosure	IP67
Control air pressure [bar]	3 - 8
T [°C]	≥ -20 - ≤ +80

Description

An intelligent, compact and innovative positioner. The integrated control offered by this multi-functional control unit represents the latest in open-loop and closed-loop control technology for valves. The unit attaches directly to ACTAIR EVO and DYNACTAIR EVO actuators with no need for a bracket or external piping, providing a rugged, compact overall solution. SMARTRONIC U PC offers four functions: programmable characteristic curves for valve opening and closing, intelligent positioning, process monitoring and control. SMARTRONIC U PC is PC programmable and can be connected to a Profibus DP field bus.

Applications

Water engineering, energy engineering and industry

<https://www.ksb.com/en-gb/lc/S06B>

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