› People. Passion. Performance.

KSB

Product Portfolio 2023

Valves ı Actuators ı Automation

Type Series Index

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.

THE GLOBAL COMPACT
WE SUPPORT

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 CO_2 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 CO_2 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.

General Information

Regional products	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.
Key to actuators	In the Products section the symbol ● in conjunction with the relevant letter indicates the actuator type(s) available. ● m = manual (lever, handwheel, etc.) ● e = electric actuator ● p = pneumatic actuator ● h = hydraulic actuator
Trademark rights	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.
Product information	 For information as per chemicals Regulation (EC) No. 1907/2006 (REACH), see https://www.ksb.com/en-global/company/corporate-responsibility/reach.
Digital product catalogue	 https://www.ksb.com/en-gb/global-search
CAD portal	 http://ksb.partcommunity.com
BIM	 https://www.ksb.com/en-gb/software-and-know-how/configuration-tools

Valves

Design/Application	Type series	Page	Automation	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals / Food
Soft-seated globe valves to DIN/EN	BOA-SuperCompact	24	■		■		■		
	BOA-Compact	24	■		■		■		
	BOA-Compact EKB	24	■	■	■		■		
	BOA-W	24	■		■		■		
Bellows-type globe valves to DIN/EN	BOA-H	25			■	■	■		
	BOA-H/HE/HV/HEV	25	■		■	■	■		
	NORI 40 ZXLBV/ZXSBV	25			■	■	■		
	NORI 40 ZXLB/ZXSB	25	■		■	■	■		
	NORI 40 ZYLB/ZYSB	25			■	■	■		
	BOACHEM-ZXAB/ZYAB	26	■		■	■	■		
Bellows-type globe valves to ANSI/ASME	ECOLINE GLB 150-600	26	■		■	■			■
	ECOLINE GLB 800	26	■		■	■			■
Globe valves to DIN/EN with gland packing	NORI 40 ZXL/ZXS	26			■	■	■		
	NORI 40 ZXLF/ZXSF	27	■		■	■	■		
	NORI 160 ZXL/ZXS	27			■	■			
	NORI 160 ZXLF/ZXSF	27	■		■	■			
	NORI 320 ZXSV	27			■	■			
	NORI 500 ZXSV	27	■		■	■			
	BOACHEM-ZXA	28			■		■		
	ECOLINE VA16	28			■		■		
Globe valves to ANSI/ASME with gland packing	ECOLINE GLC 150-600	28	■		■	■			
	ECOLINE GLF 150-600	28	■		■	■			
	ECOLINE GLF 800	28	■		■	■			
	ECOLINE GLV 150-300	29	■		■	■			
	SICCA 150-600 GLC	29	■		■	■			
	SICCA 900-2500 GLC	29	■		■	■			
	SICCA 150-4500 GLF	29	■		■	■			
Globe valves for nuclear applications	NUCA globe valves	29	■			■			
	ZXNB	30	■			■			
	ZXNVB	30	■			■			
	ZYNB/ZYN	30	■			■			
Control valves to DIN/EN	BOA-CVE C/CS/W/IMS/EKB/IMS EKB	30	■	■	■		■		
	BOA-CVE H	31	■		■	■	■		
	BOA-CVP H	31	■		■	■	■		
Control valves to ANSI/ASME	MIL 10000	31	■		■				
	MIL 21000	31	■	■	■	■	■		■
	MIL 27000	31	■	■	■		■		■
	MIL 29000	32	■		■	■			■
	MIL 41000	32	■	■	■	■			■
	MIL 50000	32	■		■				
	MIL 70000	32	■		■	■			
	MIL 71000	32	■		■	■			
	MIL 76000	33	■		■	■			
	MIL 77000	33	■		■				
	MIL 78000	33	■		■	■			
	MIL 81000	33	■		■	■			
	MIL 91000	33	■		■	■			
Automatic recirculation valves	MIL 90000	34			■	■			
Balancing and shut-off valves to DIN/EN	BOA-Control/BOA-Control IMS	34	■	■	■		■		
	BOA-Control PIC	34	■		■		■		
	BOA-Control SBV	35			■		■		
	BOA-Control DPR	35			■		■		

Design/Application	Type series	Page	Automation	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals / Food
Level control valves to DIN/EN	CONDA-VLC	35		■					
Pressure reducing valves to DIN/EN	CONDA-VRC	35		■					
Pressure sustaining valves to DIN/EN	CONDA-VSM	36		■					
Air valves to DIN/EN	BOAVENT-AVF	36		■					
	BOAVENT-SIF	36		■					
	BOAVENT-SVA	36		■					
	BOAVENT-SVF	37		■					
Vent valves for nuclear applications	SISTO-VentNA	37				■	■		
	SISTO-KRVNA	37				■			
Start and stop control valves to DIN/EN	ZJSVA/ZXSVA	37	■		■	■			
Gate valves to DIN/EN	COBRA-SGP/SGO	38		■	■		■		
	COBRA-SMP	38		■	■		■		
	ECOLINE SP	38		■	■		■		
	ECOLINE GT 40	38	■		■				
	STAAL 40 AKD/AKDS	38	■		■	■			
	STAAL 100 AKD/AKDS	39	■		■	■			
	AKG-A/AKGS-A	39	■		■	■			
	ZTS	39	■		■	■			
Gate valves to ANSI/ASME	ECOLINE GTB 150-600	39	■		■	■			■
	ECOLINE GTB 800	39	■		■	■			■
	ECOLINE GTC 150-600	40	■		■	■			
	ECOLINE GTF 150-600	40	■		■	■			
	ECOLINE GTF 800	40	■		■	■			
	ECOLINE GTV 150-300	40	■		■	■			
	SICCA 150-600 GTC	40	■		■	■			
	SICCA 900-3600 GTC	41	■		■	■			
	SICCA 150-2500 GTF	41	■		■	■			
Gate valves for nuclear applications	ZTN	41	■			■			
Body pressure relief valve	UGS	41			■	■			
Knife gate valves to DIN/EN	HERA-BD	42	■	■	■		■	■	
Knife gate valves to ANSI/ASME	HERA-BDS	42	■	■	■			■	
	HERA-BHT	42	■	■	■			■	
	HERA-SH	42	■	■	■			■	
Lift check valves to DIN/EN	BOA-RPL/RPL F-F	43		■			■		
	BOA-RFV	43		■	■		■		
	BOA-RVK	43			■	■	■		
	BOA-R	43			■	■	■		
	NORI 40 RXL/RXS	43			■	■	■		
	NORI 160 RXL/RXS	44			■	■			
	RGS	44			■	■			
	BOACHEM-RXA	44			■		■		
Lift check valves to ANSI/ASME	ECOLINE PTF 150-600	44			■	■			
	ECOLINE PTF 800	44			■	■			
	SICCA 150-4500 PCF	45			■	■			
Lift check valves for nuclear applications	NUCA lift check valves	45				■			
	RJN	45				■			
	RYN	45	■			■			
Swing check valves to DIN/EN	ECOLINE WT/WTI	46			■		■		
	STAAL 40 AKK/AKKS	46			■	■			
	STAAL 100 AKK/AKKS	46			■	■			
	AKR/AKRS	46			■	■			
	ZRS	46			■	■			
	SISTO-RSK/RSKS	47		■	■	■	■	■	
	SERIE 2000	47		■	■		■		

Design/Application	Type series	Page	Automation	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals / Food
Swing check valves to ANSI/ASME	ECOLINE SCC 150-600	47			■	■			
	ECOLINE SCF 150-600	47			■	■			
	ECOLINE SCF 800	47			■	■			
	ECOLINE SCV 150-300	48			■	■			
	SICCA 150-600 SCC	48			■	■			
	SICCA 900-3600 SCC	48			■	■			
Swing check valves for nuclear applications	SISTO-RSKNA	48				■			
	ZRN	48				■			
Tilting disc check valves to DIN/EN	COBRA-TDC01/03	49		■	■	■			
Strainers to DIN/EN	BOA-S	49			■	■	■		
	NORI 40 FSL/FSS	49			■	■	■		
	BOACHEM-FSA	49			■		■		
Strainers to ANSI/ASME	ECOLINE FYC 150-600	50			■	■			
	ECOLINE FYF 800	50			■	■			
Centred-disc butterfly valves	BOAX-CBV13	50		■	■	■	■		
	BOAX-S/SF	50	■				■		
	BOAX-B	51	■	■	■		■		
	ISORIA 10/16	51	■	■	■	■		■	
	ISORIA 20/25	51	■	■	■	■	■		
	MAMMOUTH	51	■	■	■	■			
	KE	51	■	■	■				■
Double-offset butterfly valves	APORIS-DEB02	52		■	■	■			
	DANAÏS 150	52	■	■	■	■	■	■	■
	DANAÏS MTII	52	■		■	■		■	
	DANAÏS CRYO	52	■		■				
	DANAÏS CRYO AIR	52	■		■				
Triple-offset butterfly valves	TRIODIS 150	53	■		■	■			
	TRIODIS 300	53	■		■	■			
	TRIODIS 600	53	■		■	■			
Butterfly valves for nuclear applications	CLOSSIA	53	■			■			
Combined butterfly/check valves	DUALIS	54		■					
Single-piece ball valves	MP-CI/MP-II	54	■	■					
	PROFIN VT1	54		■	■		■		
Two-piece ball valves	ECOLINE BLT 150-300	54	■		■	■			■
	PROFIN VT2L	55		■	■		■		
Three-piece ball valves	ECOLINE BLC 1000	55	■		■	■			■
	PROFIN SI3	55	■	■	■		■		
	PROFIN VT3	55		■	■		■		
Soft-seated diaphragm valves to DIN/EN	SISTO-KB	56	■	■	■	■		■	
	SISTO-16	56	■	■	■	■			
	SISTO-16S	56	■	■	■	■			
	SISTO-16RGAMaXX	56		■			■		
	SISTO-16TWA	56	■	■			■		
	SISTO-20	57	■		■	■			■
	SISTO-C	57	■	■					■
Diaphragm valves for nuclear applications	SISTO-20NA	57	■			■			
	SISTO-DrainNA	57				■			
Feed water bypass valves	ZJSVM/RJSVM	58	■		■	■			
Expansion and anti-vibration joints	ECOLINE GE1/GE2/GE3	58			■		■		
	ECOLINE GE4	58			■		■		

Actuators

Design/Application	Type series	Page	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals / Food
Levers	CR/CM	59	■	■	■	■		
	S/SR/SP	59	■	■	■	■		
Manual gearboxes	MS	59	■	■		■		
	MC	59	■	■	■	■	■	
Electric actuators	MultiTurn SA+GS / SAR+GS	60	■	■	■	■		
	QuarterTurn AQ, AQL / SQ	60	■	■	■	■		
	SISTO-LAE	60	■	■	■	■	■	
Hydraulic actuators	HQ EVO	60	■	■	■			
Pneumatic actuators	ACTAIR EVO	61	■	■	■			
	DYNACTAIR EVO	61	■	■	■			
	SISTO-LAD	61	■	■	■	■	■	
	SISTO-LAP	61	■	■	■	■	■	
	SISTO-C LAP	62						■
	MIL 37-38	62	■	■	■	■		■
	MIL 67-68	62	■	■	■			
Control accessories	EMO	62	■	■	■	■		

KSB offers a wide range of actuators. Just contact our specialists.

Automation

Design/Application	Type series	Page	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals / Food
Monitoring	AMTROBOX	63	■	■	■			
	AMTROBOX Ex ia	63	■	■	■			
	AMTROBOX ATEX Zone 22	63	■	■	■			
	AMTROBOX M	63	■	■	■	■		
	AMTROBOX R	63	■	■	■			
	AMTROBOX R Ex ia	64	■	■	■			
ON/OFF valve controllers	AMTRONIC U	64	■	■	■			
	AMTRONIC U Ex ia	64	■	■	■			
Positioners	SMARTRONIC U MA	64	■	■	■			
	SMARTRONIC U AS-i	65	■	■	■			
Intelligent positioners	SMARTRONIC U PC	65	■	■	■			

Fluids handled

	Soft-seated globe valves to DIN/EN	BOA-SuperCompact	BOA-Compact	BOA-Compact EKB	BOA-W	Bellows-type globe valves to DIN/EN	BOA-H	BOA-H/HE/HV/HEV	NORI 40 ZXLBV/ZXSBV	NORI 40 ZXLB/ZXSB	NORI 40 ZYLB/ZYSB	BOACHEM-ZXAB/ZYAB	Bellows-type globe valves to ANSI/ASME	ECOLINE GLB 150-600	ECOLINE GLB 800	Globe valves to DIN/EN with gland packing	NORI 40 ZXL/ZXS	NORI 40 ZXLF/ZXSF	NORI 160 ZXL/ZXS	NORI 160 ZXLF/ZXSF	NORI 320 ZXSV	NORI 500 ZXSV	BOACHEM-ZXA	ECOLINE VA16	Globe valves to ANSI/ASME with gland packing	SICCA 150-600 GLC	SICCA 900-2500 GLC	SICCA 150-4500 GLF	ECOLINE GLC 150-600	ECOLINE GLF 150-600	ECOLINE GLF 800	ECOLINE GLV 150-300				
Abrasive fluids																																				
Waste water with faeces																																				
Waste water without faeces																																				
Aggressive fluids												■		■	■								■													
Inorganic fluids																																				
Activated sludge																																				
Brackish water																																				
Service water				■																						■		■								
Steam							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■			■	■	■	■	■	■	■				
Distillate																																				
Explosive fluids								■	■	■	■	■		■	■		■	■	■	■	■	■	■													
Digested sludge																																				
Solids-laden fluids																																				
Solids (ore, sand, gravel, ash)																																				
Flammable fluids							■	■	■	■	■	■					■	■	■	■	■	■	■													
River, lake and groundwater																								■												
Liquefied gas																																				
Fluids containing gas							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■			■	■	■	■	■	■	■				
Gases							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■				
Harmful fluids							■	■	■	■	■	■		■	■																					
Toxic fluids							■	■	■	■	■	■		■	■																					
High-temperature hot water							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■				
Heating water		■	■		■		■																			■		■								
Highly aggressive fluids												■		■	■								■													
Condensate							■	■	■	■	■	■		■	■		■	■					■	■		■			■	■						
Corrosive fluids												■		■	■								■			■	■	■								
Valuable fluids							■	■	■	■	■	■		■	■																					
Fuels																																				
Cooling water		■	■	■																				■												
Volatile fluids							■	■	■	■	■	■		■	■																					
Fire-fighting water																										■		■								
Solvents																																				
Seawater																										■	■	■								
Fluids containing mineral oils							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■	■		■		■	■	■	■	■				
Oils							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■	■		■	■	■	■	■	■	■				
Organic fluids																																				
Polymerising/crystallising fluids																	■	■	■	■	■	■	■													
Radioactive fluids																																				
Cleaning agents																																				
Raw sludge																																				
Lubricants																								■		■		■								
Grey water																										■		■								
Brine																																				
Feed water							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■			■	■	■	■	■	■	■				
Dipping paints																																				
Drinking water				■																																
Vacuum								■	■	■	■															■										
Thermal oils							■	■	■	■	■	■		■	■											■		■								
Wash water				■																				■		■		■								

Fluids handled

	Globe valves for nuclear applications	NUCA globe valves	ZYNB/ZYN	ZXNB	ZXNVB	Control valves to DIN/EN	BOA-CVE C/CS/W/IMS/EKB/IMS EKB	BOA-CVE H	BOA-CVP H	Balancing and shut-off valves to DIN/EN	BOA-Control /BOA-Control IMS	BOA-Control PIC	BOA-Control SBV	BOA-Control DPR	Level control valves to DIN/EN	CONDA-VLC	Pressure reducing valves to DIN/EN	CONDA-VRC	Pressure sustaining valves to DIN/EN	CONDA-VSM	Air valves	BOAVENT-AVF	BOAVENT-SVF	BOAVENT-SIF	BOAVENT-SVA	Vent valves for nuclear applications	SISTO-VentNA	SISTO-KRVNA	Start and stop control valves to DIN/EN	ZJSVA/ZXSVA
Abrasive fluids																														
Waste water with faeces																														
Waste water without faeces																														
Aggressive fluids																														
Inorganic fluids																														
Activated sludge																														
Brackish water																														
Service water							■	■	■		■	■	■	■														■		
Steam	■	■	■	■				■	■																			■	■	
Distillate																														
Explosive fluids																													■	
Digested sludge																														
Solids-laden fluids																														
Solids (ore, sand, gravel, ash)																														
Flammable fluids								■	■																					
River, lake and groundwater																														
Liquefied gas																														
Fluids containing gas		■	■	■	■			■	■																			■	■	
Gases		■	■	■	■			■	■																			■	■	
Harmful fluids																														
Toxic fluids		■	■	■	■																									
High-temperature hot water		■	■	■	■			■	■																			■	■	
Heating water							■	■	■		■	■	■	■													■	■		
Highly aggressive fluids																														
Condensate								■	■																			■		
Corrosive fluids																														
Valuable fluids																														
Fuels																														
Cooling water		■	■	■	■		■	■	■		■	■	■	■														■		
Volatile fluids																														
Fire-fighting water																												■		
Solvents																														
Seawater																														
Fluids containing mineral oils								■	■																					
Oils								■	■																					
Organic fluids																														
Polymerising/crystallising fluids																														
Radioactive fluids		■	■	■	■																									
Cleaning agents																														
Raw sludge																														
Lubricants																														
Grey water																■		■		■		■	■	■	■					
Brine																														
Feed water								■	■																			■	■	
Dipping paints																														
Drinking water							■				■					■		■		■		■	■	■	■					
Vacuum																												■		
Thermal oils																														
Wash water											■																			

Fluids handled

	Gate valves to DIN/EN	COBRA-SGP/SGO	COBRA-SMP	ECOLINE SP	ECOLINE GT 40	STAAL 40 AKD/AKDS	STAAL 100 AKD/AKDS	AKG-A/AKGS-A	ZTS	Gate valves to ANSI/ASME	ECOLINE GTB 150-600	ECOLINE GTB 800	ECOLINE GTC 150-600	ECOLINE GTF 150-600	ECOLINE GTF 800	ECOLINE GTV 150-300	SICCA 150-600 GTC	SICCA 900-3600 GTC	SICCA 150-2500 GTF	Gate valves for nuclear applications	ZTN	Knife gate valves to DIN/EN	HERA-BD	Knife gate valves to ANSI/ASME	HERA-BDS	HERA-BHT	HERA-SH	Body pressure relief valves	UGS	Lift check valves to DIN/EN	BOA-RPL/RPL F-F	BOA-RFV	BOA-RVK	BOA-R	NORI 40 RXL/RXS	NORI 160 RXL/RXS
Abrasive fluids																								■											
Waste water with faeces																						■		■	■	■									
Waste water without faeces																						■		■	■	■									
Aggressive fluids																								■	■	■									
Inorganic fluids																																			
Activated sludge																						■		■	■	■									
Brackish water																																			
Service water		■	■	■													■		■			■		■	■	■			■						
Steam					■	■	■	■	■		■	■	■	■	■	■	■	■	■		■							■				■	■	■	■
Distillate																																			
Explosive fluids					■	■	■	■	■		■	■											■					■					■	■	■
Digested sludge																							■		■	■	■								
Solids-laden fluids																							■		■	■	■								
Solids (ore, sand, gravel, ash)																							■												
Flammable fluids																																	■	■	■
River, lake and groundwater		■																					■							■					
Liquefied gas																																			
Fluids containing gas					■	■	■	■	■		■	■	■	■	■	■	■	■	■		■							■				■	■	■	■
Gases					■	■	■	■	■		■	■	■	■	■	■	■	■	■		■							■				■	■	■	■
Harmful fluids											■	■																					■	■	■
Toxic fluids											■	■									■												■	■	■
High-temperature hot water			■	■	■	■	■	■	■		■	■	■	■	■	■	■		■		■							■			■	■	■	■	■
Heating water			■	■										■			■		■												■	■	■	■		
Highly aggressive fluids											■	■																							
Condensate					■	■					■	■					■	■	■															■	■	
Corrosive fluids											■	■														■	■								
Valuable fluids											■	■																					■	■	■
Fuels																																			
Cooling water		■	■	■										■			■		■		■									■	■	■			
Volatile fluids											■	■																					■	■	■
Fire-fighting water																	■		■																
Solvents																																			
Seawater																	■	■	■																
Fluids containing mineral oils		■									■	■					■		■														■	■	■	■
Oils		■									■	■																					■	■	■
Organic fluids																																			
Polymerising/crystallising fluids																																		■	■
Radioactive fluids																					■														
Cleaning agents																																			
Raw sludge																							■			■	■								
Lubricants																	■		■																
Grey water		■															■		■				■			■	■			■					
Brine																																			
Feed water					■	■	■	■	■		■	■	■	■	■	■	■	■	■									■				■	■	■	■
Dipping paints																																			
Drinking water		■	■																											■					
Vacuum																	■																	■	
Thermal oils					■	■					■	■					■		■														■	■	
Wash water																	■		■																

Fluids handled

	Lift check valves to DIN/EN	RGS	BOACHEM-RXA	Lift check valves to ANSI/ASME	ECOLINE PTF 150-600	ECOLINE PTF 800	SICCA 150-4500 PCF	Lift check valves for nuclear applications	NUCA lift check valves	RJN	RYN	Swing check valves to DIN/EN	ECOLINE WT/WTI	STAAL 40 AKK/AKKS	STAAL 100 AKK/AKKS	AKR/AKRS	ZRS	SISTO-RSK/RSKS	SERIE 2000	Swing check valves to ANSI/ASME	ECOLINE SCC 150-600	ECOLINE SCF 150-600	ECOLINE SCF 800	ECOLINE SCV 150-300	SICCA 150-600 SCC	SICCA 900-3600 SCC	Swing check valves for nuclear applications	SISTO-RSKNA	ZRN	Tilting disc check valves to DIN/EN	COBRA-TDC01/03
Abrasive fluids																		■	■									■			
Waste water with faeces																		■													
Waste water without faeces																		■													
Aggressive fluids			■															■	■												
Inorganic fluids																		■													
Activated sludge																															
Brackish water																		■													
Service water							■						■					■	■						■					■	
Steam		■	■		■	■	■		■	■	■			■	■	■	■		■		■	■	■	■	■	■		■			
Distillate																		■													
Explosive fluids		■	■											■	■	■	■		■												
Digested sludge																		■													
Solids-laden fluids																		■													
Solids (ore, sand, gravel, ash)																															
Flammable fluids		■	■																■												
River, lake and groundwater																		■									■			■	
Liquefied gas																															
Fluids containing gas		■	■		■	■	■		■	■	■			■	■	■	■				■	■	■	■	■	■			■		
Gases		■	■		■	■			■	■	■			■	■	■	■		■		■	■	■	■	■	■			■		
Harmful fluids		■	■															■													
Toxic fluids		■	■						■	■	■							■	■										■		
High-temperature hot water		■	■		■	■	■		■	■	■		■	■	■	■	■		■		■	■	■	■	■				■		
Heating water							■						■												■						
Highly aggressive fluids			■															■													
Condensate			■				■							■				■							■	■					
Corrosive fluids			■															■	■												
Valuable fluids		■	■																												
Fuels													■																		
Cooling water							■		■	■	■		■	■				■	■						■				■		■	
Volatile fluids		■	■																■		■	■	■	■							
Fire-fighting water							■											■							■						
Solvents																		■													
Seawater																		■	■						■	■		■			
Fluids containing mineral oils		■	■				■						■					■	■						■						
Oils		■	■				■						■								■	■	■	■	■						
Organic fluids																		■													
Polymerising/crystallising fluids		■	■																												
Radioactive fluids									■	■	■							■										■			
Cleaning agents																		■													
Raw sludge																		■													
Lubricants							■											■							■						
Grey water							■											■							■			■			
Brine																		■													
Feed water		■	■		■	■	■							■	■	■	■				■	■	■	■	■	■					
Dipping paints																		■													
Drinking water																		■	■												
Vacuum														■																	
Thermal oils			■				■							■	■				■						■						
Wash water							■						■					■							■						

Fluids handled

	Strainers to DIN/EN	BOA-S	NORI 40 FSL/FSS	BOACHEM-FSA	Strainers to ANSI/ASME	ECOLINE FYC 150-600	ECOLINE FYF 800	Centred-disc butterfly valves	BOAX-CBV13	BOAX-S/SF	BOAX-B	ISORIA 10/16	ISORIA 20/25	MAMMOUTH	KE	Double-offset butterfly valves	APORIS-DEB02	DANAÏS 150	DANAÏS MTII	DANAÏS CRYO	DANAÏS CRYO AIR	Triple-offset butterfly valves	TRIODIS 150	TRIODIS 300	TRIODIS 600	Butterfly valves for nuclear applications	CLOSSIA	Combined butterfly/check valves	DUALIS	Single-piece ball valves	MP-CI/MP-II	PROFIN VT1	Two-piece ball valves	ECOLINE BLT 150-300	PROFIN VT2L	
Abrasive fluids												■	■		■																					
Waste water with faeces																																				
Waste water without faeces											■																									
Aggressive fluids				■								■			■			■	■				■	■	■						■			■		
Inorganic fluids												■			■																			■		
Activated sludge																																				
Brackish water												■	■																■							
Service water									■			■	■	■			■														■	■		■	■	
Steam		■	■	■		■	■											■	■				■	■	■		■								
Distillate												■			■																					
Explosive fluids			■	■								■			■																					
Digested sludge																																				
Solids-laden fluids		■	■	■								■	■		■			■	■				■	■	■				■						
Solids (ore, sand, gravel, ash)																		■	■				■	■	■										
Flammable fluids		■	■	■											■			■	■				■	■	■						■				
River, lake and groundwater												■	■	■			■														■	■			■	
Liquefied gas																				■	■		■	■	■										
Fluids containing gas		■	■	■		■	■					■																						■		
Gases		■	■	■		■	■				■	■						■	■	■	■		■	■	■		■				■			■		
Harmful fluids		■	■	■											■																			■	■	
Toxic fluids		■	■	■								■			■			■	■															■		
High-temperature hot water		■	■	■		■	■											■	■				■	■	■						■			■		
Heating water		■								■	■																				■					
Highly aggressive fluids				■											■			■																■		
Condensate		■	■	■								■			■																	■		■	■	
Corrosive fluids				■								■			■			■	■				■	■	■				■		■	■		■	■	
Valuable fluids		■	■	■																																
Fuels																		■	■				■	■	■									■		
Cooling water									■	■	■	■	■	■			■														■	■		■	■	
Volatile fluids		■	■	■								■			■			■	■				■	■	■										
Fire-fighting water												■	■																		■	■			■	
Solvents												■	■		■																					
Seawater												■	■	■			■													■						
Fluids containing mineral oils		■	■	■		■	■		■	■	■	■	■		■			■	■				■	■	■										
Oils		■	■	■		■	■		■	■	■	■			■			■	■				■	■	■						■	■		■	■	
Organic fluids												■	■		■																			■		
Polymerising/crystallising fluids												■			■				■				■	■	■										
Radioactive fluids												■	■	■				■	■				■	■	■										
Cleaning agents												■			■			■													■					
Raw sludge																																				
Lubricants																		■														■			■	
Grey water												■																	■							
Brine												■			■			■																		
Feed water		■	■	■		■	■																								■			■		
Dipping paints																																				
Drinking water									■	■	■	■	■	■			■													■		■	■		■	■	
Vacuum			■						■			■			■				■	■				■	■	■										
Thermal oils		■	■	■															■	■				■	■	■								■		
Wash water												■	■																			■	■			■	

Fluids handled

	Three-piece ball valves	ECOLINE BLC 1000	PROFIN SI3	PROFIN VT3	Soft-seated diaphragm valves to DIN/EN	SISTO-KB	SISTO-16	SISTO-16S	SISTO-16RGAMaXX	SISTO-16TWA	SISTO-20	SISTO-C	Diaphragm valves for nuclear applications	SISTO-20NA	SISTO-DrainNA	Feed water bypass valves	ZJSVM/RJSVM	Expansion and anti-vibration joints	ECOLINE GE1/GE2/GE3	ECOLINE GE4	Control valves to ANSI/ASME	MIL 10000	MIL 21000	MIL 27000	MIL 29000	MIL 41000	MIL 50000	MIL 70000	MIL 71000	MIL 76000	MIL 77000	MIL 78000	MIL 81000	MIL 91000	Automatic recirculation valves	MIL 90000
Abrasive fluids						■																													
Waste water with faeces						■																													
Waste water without faeces						■	■	■			■								■	■		■	■	■				■	■				■		
Aggressive fluids		■				■	■	■			■	■																							
Inorganic fluids		■				■	■	■			■	■										■	■	■		■		■	■			■	■		
Activated sludge						■																													
Brackish water						■	■	■			■																								
Service water		■	■	■		■	■	■	■	■	■								■	■		■	■	■		■		■	■	■	■	■	■	■	■
Steam							■	■			■	■										■	■	■		■		■	■	■	■		■		
Distillate						■	■	■			■	■										■	■	■	■	■		■	■	■	■	■	■	■	
Explosive fluids																																			
Digested sludge						■																													
Solids-laden fluids						■																													
Solids (ore, sand, gravel, ash)						■																													
Flammable fluids			■				■	■														■	■	■	■	■		■	■	■	■	■	■	■	
River, lake and groundwater			■	■		■	■	■	■	■	■			■					■	■		■	■	■	■	■	■	■	■	■	■	■	■		■
Liquefied gas																						■					■								
Fluids containing gas		■					■	■			■											■	■	■		■	■	■	■	■	■	■	■		
Gases		■					■	■			■	■		■								■	■	■		■	■	■	■		■	■	■		
Harmful fluids		■	■	■		■	■	■			■	■		■								■	■	■	■	■	■	■	■	■	■	■	■		
Toxic fluids		■				■	■	■			■	■		■								■	■	■	■	■	■	■	■	■	■	■	■		
High-temperature hot water		■	■				■	■		■	■	■										■	■	■	■	■		■	■	■	■	■	■		
Heating water			■						■	■				■	■							■	■	■	■	■		■	■	■	■	■	■		■
Highly aggressive fluids		■					■	■			■																								
Condensate		■	■	■			■	■		■	■	■										■	■	■	■	■	■	■	■	■	■	■	■		■
Corrosive fluids		■	■	■		■	■	■			■	■										■	■	■		■	■	■	■	■	■	■	■		
Valuable fluids																																			
Fuels		■									■			■								■	■	■		■	■	■	■	■	■	■	■		
Cooling water		■	■	■		■	■	■	■	■	■								■	■		■	■	■	■	■		■	■	■	■	■	■		■
Volatile fluids						■	■	■			■	■										■	■	■		■	■	■	■	■	■		■		
Fire-fighting water			■	■					■	■				■								■	■	■		■		■	■	■	■	■	■		■
Solvents			■	■		■	■	■			■	■		■																				
Seawater						■	■	■	■	■	■												■			■		■	■						
Fluids containing mineral oils						■	■	■			■	■							■				■			■		■	■						
Oils		■	■	■		■	■	■			■											■	■	■	■	■		■	■	■	■		■		
Organic fluids		■				■	■	■			■	■										■	■	■		■		■	■	■	■		■		
Polymerising/crystallising fluids						■	■	■			■	■																							
Radioactive fluids											■	■		■									■												
Cleaning agents			■	■			■	■			■	■										■	■	■	■	■	■	■	■	■	■	■	■		
Raw sludge						■																													
Lubricants			■	■		■	■	■			■											■	■	■	■	■	■	■	■	■	■	■	■		
Grey water						■	■	■											■	■															
Brine						■	■	■			■											■	■					■							
Feed water		■															■		■	■		■	■	■	■	■		■	■	■	■	■	■		■
Dipping paints			■			■	■	■			■																								
Drinking water		■	■	■					■	■									■	■		■	■	■	■	■		■	■	■	■	■	■		■
Vacuum							■	■			■	■										■	■			■		■	■	■	■	■	■		
Thermal oils		■									■											■	■	■	■	■		■	■	■	■		■		
Wash water			■	■		■	■	■																											

Applications

	Soft-seated globe valves to DIN/EN	BOA-SuperCompact	BOA-Compact	BOA-Compact EKB	BOA-W	Bellows-type globe valves to DIN/EN	BOA-H	BOA-H/HE/HV/HEV	NORI 40 ZXLBV/ZXSBV	NORI 40 ZXLB/ZXSB	NORI 40 ZYLB/ZYSB	BOACHEM-ZXAB/ZYAB	Bellows-type globe valves to ANSI/ASME	ECOLINE GLB 150-600	ECOLINE GLB 800	Globe valves to DIN/EN with gland packing	NORI 40 ZXL/ZXS	NORI 40 ZXLF/ZXSF	NORI 160 ZXL/ZXS	NORI 160 ZXLF/ZXSF	NORI 320 ZXSV	NORI 500 ZXSV	BOACHEM-ZXA	ECOLINE VA16	Globe valves to ANSI/ASME with gland packing	SICCA 150-600 GLC	SICCA 900-2500 GLC	SICCA 150-4500 GLF	ECOLINE GLC 150-600	ECOLINE GLF 150-600	ECOLINE GLF 800	ECOLINE GLV 150-300				
Spray irrigation																																			
Mining																	■	■	■	■	■	■													
General irrigation																																			
Chemical industry							■	■	■	■	■	■					■	■	■	■	■	■	■												
Pressure boosting																																			
Disposal																																			
Drainage																																			
Descaling units																	■	■	■	■	■	■													
District heating							■																	■												
Solids transport																																			
Fire-fighting systems																																			
Gas pipelines																										■	■	■							
Gas storage facilities																																			
Maintaining groundwater levels																																			
Domestic water supply				■																				■											
HVAC systems		■	■	■	■		■	■																											
Homogenisation																																			
Industrial recirculation systems																								■											
Nuclear power stations								■	■	■	■						■	■	■	■	■	■													
Boiler feed applications							■	■	■	■	■						■	■	■	■	■	■				■	■	■	■	■	■	■	■			
Boiler recirculation							■	■	■	■	■						■	■	■	■	■	■													
Waste water treatment plants																																			
Air-conditioning systems		■	■	■	■		■																	■											
Condensate transport							■	■	■	■	■	■					■	■																	
Fossil-fuelled power stations																	■	■	■	■	■	■				■	■	■	■	■	■	■	■			
Cooling circuits				■																				■											
Paint shops							■	■																											
Food and beverage industry												■		■	■								■												
Seawater desalination / reverse osmosis																																			
Mixing																																			
Pulp and paper industry																	■	■	■	■	■	■	■			■	■	■							
Petrochemical industry								■	■	■	■	■		■	■		■	■	■	■	■	■	■			■	■	■	■	■	■	■	■			
Pharmaceutical industry																																			
Pipelines and tank farms																										■	■	■	■	■	■	■	■			
Refineries																										■	■	■	■	■	■	■	■			
Flue gas desulphurisation																																			
Rainwater harvesting																								■											
Recirculation																								■											
Shipbuilding							■	■									■	■	■	■	■	■													
Sludge disposal																																			
Sludge processing																																			
Snow-making systems																	■	■	■	■															
Swimming pools																																			
Keeping in suspension																																			
Thermal oil circulation							■	■	■	■	■																									
Process engineering							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■			■	■	■	■	■	■	■	■			
Heat recovery systems		■	■		■																														
Hot-water heating systems		■	■		■		■																	■											
Washing plants				■																															
Water treatment																																			
Water extraction																																			
Water supply				■																															
Sugar industry							■	■	■	■	■	■		■	■		■	■	■	■	■	■	■			■	■	■								

Applications

	Globe valves for nuclear applications	NUCA globe valves	ZYNB/ZYN	ZXNB	ZXNVB	Control valves to DIN/EN	BOA-CVE C/CS/W/IMS/EKB/IMS EKB	BOA-CVE H	BOA-CVP H	Balancing and shut-off valves to DIN/EN	BOA-Control /BOA-Control IMS	BOA-Control PIC	BOA-Control SBV	BOA-Control DPR	Level control valves to DIN/EN	CONDA-VLC	Pressure reducing valves to DIN/EN	CONDA-VRC	Pressure sustaining valves to DIN/EN	CONDA-VSM	Air valves	BOAVENT-AVF	BOAVENT-SVF	BOAVENT-SIF	BOAVENT-SVA	Vent valves for nuclear applications	SISTO-VentNA	SISTO-KRVNA	Start and stop control valves to DIN/EN	ZJSVA/ZXSVA
Spray irrigation																														
Mining																														
General irrigation																														
Chemical industry								■	■																					
Pressure boosting																														
Disposal																														
Drainage																														
Descaling units																														
District heating																														
Solids transport																														
Fire-fighting systems																														
Gas pipelines																														
Gas storage facilities																														
Maintenance of groundwater levels																														
Domestic water supply							■				■	■	■	■		■		■		■		■	■	■	■					
HVAC systems							■	■			■	■	■	■																
Homogenisation																														
Industrial recirculation systems																														
Nuclear power stations		■	■	■	■																					■	■		■	
Boiler feed applications								■	■																				■	
Boiler recirculation								■	■																				■	
Waste water treatment plants																														
Air-conditioning systems							■	■	■		■	■	■	■																
Condensate transport																														
Fossil-fuelled power stations																													■	
Cooling circuits							■	■	■		■	■	■	■																
Paint shops																														
Food and beverage industry																														
Seawater desalination / reverse osmosis																														
Mixing																														
Pulp and paper industry																														
Petrochemical industry																														
Pharmaceutical industry																														
Pipelines and tank farms																														
Refineries																														
Flue gas desulphurisation																														
Rainwater harvesting																														
Recirculation																														
Shipbuilding																														
Sludge disposal																														
Sludge processing																														
Snow-making systems								■																						
Swimming pools																														
Keeping in suspension																														
Thermal oil circulation																														
Process engineering								■	■																				■	
Heat recovery systems							■	■	■		■	■	■	■																
Hot-water heating systems							■	■	■		■	■	■	■																
Washing plants																														
Water treatment																■		■		■		■	■	■	■					
Water extraction																														
Water supply							■				■	■	■	■		■		■		■		■	■	■	■					
Sugar industry								■	■																					

Applications

	Gate valves to DIN/EN	COBRA-SGP/SGO	COBRA-SMP	ECOLINE SP	ECOLINE GT 40	STAAL 40 AKD/AKDS	STAAL 100 AKD/AKDS	AKG-A/AKGS-A	ZTS	Gate valves to ANSI/ASME	ECOLINE GTB 150-600	ECOLINE GTB 800	ECOLINE GTC 150-600	ECOLINE GTF 150-600	ECOLINE GTF 800	ECOLINE GTV 150-300	SICCA 150-600 GTC	SICCA 900-3600 GTC	SICCA 150-2500 GTF	Gate valves for nuclear applications	ZTN	Knife gate valves to DIN/EN	HERA-BD	Knife gate valves to ANSI/ASME	HERA-BDS	HERA-BHT	HERA-SH	Body pressure relief valves	UGS	Lift check valves to DIN/EN	BOA-RPL/RPL F-F	BOA-RFV	BOA-RVK	BOA-R	NORI 40 RXL/RXS	NORI 160 RXL/RXS
Spray irrigation																																			
Mining					■	■	■	■																	■									■	■
General irrigation		■																					■							■						
Chemical industry						■	■	■	■																■				■				■	■	■
Pressure boosting		■																																	
Disposal																																			
Drainage																							■			■	■								
Descaling units					■	■	■	■																										■	■
District heating					■	■	■																												
Solids transport																							■		■	■	■								
Fire-fighting systems																																			
Gas pipelines																	■	■	■																
Gas storage facilities																																			
Maintenance of groundwater levels																																			
Domestic water supply		■	■	■									■																		■				
HVAC systems																																	■	■	
Homogenisation																																			
Industrial recirculation systems																																			
Nuclear power stations						■	■	■	■				■	■	■	■					■													■	■
Boiler feed applications					■	■	■	■	■								■	■	■										■					■	■
Boiler recirculation					■	■	■	■	■																				■					■	■
Waste water treatment plants																							■			■	■								
Air-conditioning systems		■	■	■										■																	■				
Condensate transport					■	■							■	■	■	■	■	■															■	■	
Fossil-fuelled power stations						■	■	■	■								■	■											■					■	■
Cooling circuits		■	■	■										■																	■				
Paint shops																																			
Food and beverage industry											■	■																							
Seawater desalination / reverse osmosis																																			
Mixing																																			
Pulp and paper industry					■	■	■	■	■				■	■	■	■	■	■	■				■			■	■			■				■	■
Petrochemical industry					■	■	■	■	■		■	■					■	■	■											■				■	■
Pharmaceutical industry													■	■	■	■	■	■	■																
Pipelines and tank farms													■	■	■	■	■	■	■																
Refineries																	■	■	■																
Flue gas desulphurisation																																			
Rainwater harvesting																							■												
Recirculation																																			
Shipbuilding					■	■	■	■																										■	■
Sludge disposal																							■			■	■								
Sludge processing																							■			■	■								
Snow-making systems					■	■	■	■																											
Swimming pools																																			
Keeping in suspension																																			
Thermal oil circulation					■	■							■	■	■	■	■	■	■															■	
Process engineering					■	■	■	■	■		■	■					■	■											■					■	■	■
Heat recovery systems																																			
Hot-water heating systems			■	■																													■	■	
Washing plants																							■				■								
Water treatment		■	■	■										■													■								
Water extraction																																			
Water supply		■	■	■										■																	■	■			
Sugar industry					■	■	■	■	■		■	■																	■				■	■	■

Applications

	Lift check valves to DIN/EN	RGS	BOACHEM-RXA	Lift check valves to ANSI/ASME	ECOLINE PTF 150-600	ECOLINE PTF 800	SICCA 150-4500 PCF	Lift check valves for nuclear applications	NUCA lift check valves	RJN	RYN	Swing check valves to DIN/EN	ECOLINE WT/WTI	STAAL 40 AKK/AKKS	STAAL 100 AKK/AKKS	AKR/AKRS	ZRS	SISTO-RSK/RSKS	SERIE 2000	Swing check valves to ANSI/ASME	ECOLINE SCC 150-600	ECOLINE SCF 150-600	ECOLINE SCF 800	ECOLINE SCV 150-300	SICCA 150-600 SCC	SICCA 900-3600 SCC	Swing check valves for nuclear applications	SISTO-RSKNA	ZRN	Tilting disc check valves to DIN/EN	COBRA-TDC01/03
Spray irrigation																														
Mining		■					■							■	■	■									■					
General irrigation					■														■											■
Chemical industry		■	■				■							■	■	■	■	■	■						■					
Pressure boosting																														
Disposal																														
Drainage																														
Descaling units		■	■				■							■	■	■									■	■				
District heating													■	■	■				■											
Solids transport																														
Fire-fighting systems																		■												
Gas pipelines																														
Gas storage facilities																														
Maintenance of groundwater levels																														
Domestic water supply							■						■												■					
HVAC systems																														
Homogenisation																														
Industrial recirculation systems													■						■											
Nuclear power stations		■							■	■	■			■	■	■	■											■	■	
Boiler feed applications		■				■	■							■	■	■	■					■	■	■	■	■	■			
Boiler recirculation		■					■							■	■	■	■									■	■			
Waste water treatment plants																														
Air-conditioning systems													■					■	■											
Condensate transport			■											■																
Fossil-fuelled power stations		■	■			■	■							■	■	■	■					■	■	■	■	■	■			
Cooling circuits							■						■	■												■				■
Paint shops																														
Food and beverage industry																														
Seawater desalination / reverse osmosis					■													■	■											■
Mixing																														
Pulp and paper industry		■	■				■							■	■	■	■		■						■	■				
Petrochemical industry		■	■			■	■							■	■	■	■		■			■	■	■	■	■	■			
Pharmaceutical industry							■																		■					
Pipelines and tank farms						■	■															■	■	■	■	■	■			
Refineries						■	■															■	■	■	■	■	■			
Flue gas desulphurisation																		■												
Rainwater harvesting							■						■													■				
Recirculation							■						■													■				
Shipbuilding		■	■											■	■	■			■											■
Sludge disposal																														
Sludge processing																														
Snow-making systems														■	■	■														
Swimming pools																														
Keeping in suspension																														
Thermal oil circulation							■							■					■						■					
Process engineering		■	■			■	■							■	■	■	■	■	■			■	■	■	■	■	■			
Heat recovery systems							■							■												■	■			
Hot-water heating systems							■						■						■							■				
Washing plants																														
Water treatment					■													■	■											■
Water extraction							■																			■				
Water supply					■		■												■							■				■
Sugar industry		■	■				■							■	■	■	■		■							■	■			

Applications

	Strainers to DIN/EN	BOA-S	NORI 40 FSL/FSS	BOACHEM-FSA	Strainers to ANSI/ASME	ECOLINE FYC 150-600	ECOLINE FYF 800	Centred-disc butterfly valves	BOAX-CBV13	BOAX-S/SF	BOAX-B	ISORIA 10/16	ISORIA 20/25	MAMMOUTH	KE	Double-offset butterfly valves	APORIS-DEB02	DANAÏS 150	DANAÏS MTII	DANAÏS CRYO	DANAÏS CRYO AIR	Triple-offset butterfly valves	TRIODIS 150	TRIODIS 300	TRIODIS 600	Butterfly valves for nuclear applications	CLOSSIA	Combined butterfly/check valves	DUALIS	Single-piece ball valves	MP-CI/MP-II	PROFIN VT1	Two-piece ball valves	ECOLINE BLT 150-300	PROFIN VT2L	
Spray irrigation										■	■	■																				■			■	
Mining		■	■									■						■	■				■	■	■							■	■		■	
General irrigation									■	■	■	■	■	■			■															■	■		■	
Chemical industry		■	■	■								■			■			■	■				■	■	■							■	■	■	■	
Pressure boosting									■	■	■	■	■					■	■				■	■	■							■			■	
Disposal																																				
Drainage																																				
Descaling units			■									■																								
District heating																		■													■					
Solids transport																																				
Fire-fighting systems												■																					■		■	
Gas pipelines																				■	■															
Gas storage facilities																				■	■		■	■	■											
Maintenance of groundwater levels																																				
Domestic water supply									■	■	■																				■	■		■	
HVAC systems										■																						■			■	
Homogenisation																																				
Industrial recirculation systems												■			■			■	■				■	■	■						■	■			■	
Nuclear power stations			■															■	■				■	■	■		■									
Boiler feed applications		■	■			■	■																													
Boiler recirculation		■	■																																	
Waste water treatment plants																													■							
Air-conditioning systems									■	■	■							■	■				■	■	■						■	■			■	
Condensate transport		■	■	■																																
Fossil-fuelled power stations			■			■	■											■	■				■	■	■									■		
Cooling circuits												■	■	■			■														■	■			■	
Paint shops										■	■	■																				■			■	
Food and beverage industry				■								■						■																	■		
Seawater desalination / reverse osmosis												■	■	■	■		■																			
Mixing												■																								
Pulp and paper industry		■	■	■								■	■		■			■	■				■	■	■							■		■	■	
Petrochemical industry		■	■	■		■	■											■	■				■	■	■									■		
Pharmaceutical industry															■			■																	■		
Pipelines and tank farms						■	■					■	■	■				■		■	■		■	■	■								■	■	■	
Refineries						■	■											■					■	■	■									■		
Flue gas desulphurisation												■	■	■																						
Rainwater harvesting										■	■																				■	■			■	
Recirculation																															■					
Shipbuilding		■	■									■	■	■			■	■		■			■	■	■											
Sludge disposal																																				
Sludge processing																																				
Snow-making systems			■																													■			■	
Swimming pools										■	■				■																	■			■	
Keeping in suspension																																				
Thermal oil circulation		■	■															■	■				■	■	■									■		
Process engineering		■	■	■		■	■					■	■		■			■	■	■	■		■	■	■								■	■	■	
Heat recovery systems																																				
Hot-water heating systems										■	■							■	■				■	■	■						■					
Washing plants										■	■	■	■																				■			■	
Water treatment									■		■	■	■	■	■		■																■			■	
Water extraction											■	■																									
Water supply									■					■			■																■			■	
Sugar industry		■	■	■								■	■		■			■																			

Applications

	Three-piece ball valves	ECOLINE BLC 1000	PROFIN SI3	PROFIN VT3	Soft-seated diaphragm valves to DIN/EN	SISTO-KB	SISTO-16	SISTO-16S	SISTO-16RGAMaXX	SISTO-16TWA	SISTO-20	SISTO-C	Diaphragm valves for nuclear applications	SISTO-20NA	SISTO-DrainNA	Feed water bypass valves	ZISVM/RJSVM	Expansion and anti-vibration joints	ECOLINE GE1/GE2/GE3	ECOLINE GE4	Control valves to ANSI/ASME	MIL 10000	MIL 21000	MIL 27000	MIL 29000	MIL 41000	MIL 50000	MIL 70000	MIL 71000	MIL 76000	MIL 77000	MIL 78000	MIL 81000	MIL 91000	Automatic recirculation valves	MIL 90000
Spray irrigation			■	■																			■		■	■									
Mining			■	■		■																	■			■									
General irrigation			■	■					■	■									■	■			■			■									
Chemical industry	■		■	■		■	■	■			■												■	■		■									
Pressure boosting			■	■					■	■																									
Disposal																																			
Drainage						■																													
Descaling units						■																													
District heating						■			■	■									■	■															
Solids transport						■																■													
Fire-fighting systems			■	■					■	■																									
Gas pipelines																							■		■										
Gas storage facilities																																			
Maintaining groundwater levels						■																													
Domestic water supply			■	■					■	■									■	■			■		■										
HVAC systems			■	■					■	■													■		■										
Homogenisation							■	■			■	■																							
Industrial recirculation systems			■	■		■	■	■			■																								
Nuclear power stations														■	■		■						■		■	■					■		■		■
Boiler feed applications																	■									■					■		■		
Boiler recirculation																	■						■			■					■		■		
Waste water treatment plants						■																	■			■									
Air-conditioning systems			■	■			■	■	■	■	■								■	■			■			■									
Condensate transport						■	■	■			■	■											■			■									
Fossil-fuelled power stations	■					■	■	■			■						■						■			■					■		■		■
Cooling circuits			■	■			■	■	■	■	■								■	■			■			■									
Paint shops			■	■		■	■	■			■																								
Food and beverage industry	■											■							■	■															
Seawater desalination / reverse osmosis							■	■			■												■			■									
Mixing							■	■			■	■																							
Pulp and paper industry	■	■	■			■	■	■			■												■			■									■
Petrochemical industry	■					■	■	■			■												■			■									
Pharmaceutical industry	■											■											■	■											
Pipelines and tank farms	■	■	■																																
Refineries	■					■	■	■			■																								
Flue gas desulphurisation						■	■	■			■												■			■									
Rainwater harvesting			■	■					■	■																									
Recirculation																							■			■									
Shipbuilding						■	■	■		■	■																								
Sludge disposal						■																■													
Sludge processing						■																■													
Snow-making systems			■	■																															
Swimming pools			■	■					■	■																									
Keeping in suspension						■																													
Thermal oil circulation		■																					■			■									
Process engineering		■	■	■		■	■	■			■	■																							
Heat recovery systems									■	■																									
Hot-water heating systems									■	■									■	■			■			■									
Washing plants			■	■		■	■	■																											
Water treatment			■	■		■	■	■			■	■											■			■									
Water extraction							■																												
Water supply			■	■					■	■													■			■									
Sugar industry						■	■	■			■	■											■			■									■

Soft-seated globe valves to DIN/EN

BOA-SuperCompact

PN	6/10/16
DN	20 - 200
T [°C]	≥ -10 - ≤ +120

Description
Globe valve to DIN/EN with wafer-type body, super-compact DN face-to-face length to EN 558/94, slanted seat design with vertical bonnet, with flange alignment holes for centring, dead-end service and downstream dismantling; single-piece body, insulating cap with anti-condensation feature as standard, position indicator, locking device, travel stop, soft main and back seat; maintenance-free, full insulation possible.

Applications
Hot-water heating systems up to 120 °C. Air-conditioning systems. Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and grey cast iron. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/B03A

BOA-Compact

PN	6/16
DN	15 - 200
T [°C]	≥ -10 - ≤ +120

Description
Globe valve to DIN/EN with flanged ends, short face-to-face length to EN 558/14, slanted seat design with vertical bonnet, single-piece body, EPDM-encapsulated throttling plug, soft main and back seat, position indicator, locking device, travel stop, insulating cap with anti-condensation feature; maintenance-free, full insulation possible.

Applications
Hot-water heating systems up to 120 °C. Air-conditioning systems. Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and cast iron. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/B01A

BOA-Compact EKB

PN	10/16
DN	15 - 200
T [°C]	≥ -10 - ≤ +80

Description
Globe valve to DIN/EN with flanged ends, compact face-to-face length for drinking water supply systems, with electrostatic plastic coating inside and outside, slanted seat design with vertical bonnet, EPDM-encapsulated throttling plug, single-piece body, position indicator, locking device, travel stop, soft main and back seat; maintenance-free, (PN 10 DVGW-approved).

Applications
Water supply systems, drinking water, air-conditioning systems. Cooling circuits. Suitable for installation in copper pipes as per installation instructions (operating manual). Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and the electrostatic plastic coating. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/B02A

BOA-W

PN	6/16
DN	15 - 200
T [°C]	≥ -10 - ≤ +120

Description
Globe valve to DIN/EN with flanged ends, standard face-to-face length to EN 558/1, slanted seat design with vertical bonnet, single-piece body, EPDM-encapsulated throttling plug, soft main and back seat, position indicator, locking device, travel stop, insulating cap with anti-condensation feature; maintenance-free; full insulation possible.

Applications
Hot-water heating systems up to 120 °C. Air-conditioning systems. Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and grey cast iron. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/B07B

Bellows-type globe valves to DIN/EN

BOA-H

PN	16/25
DN	15 - 350
T [°C]	≥ -10 - ≤ +350

Description
Bellows-type globe valve to DIN/EN with flanged ends, with on/off disc or throttling plug, standard position indicator with colour coding for identification of valve design, replaceable valve disc; bellows protected when valve is in fully open position; seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

Applications
Hot-water heating systems, high-temperature hot water systems, cooling circuits, heat transfer systems, general steam applications in building services and industry. Other fluids on request.

m

https://www.ksb.com/en-gb/lc/B08A

BOA-H/HE/HV/HEV

PN	25/40
DN	10 - 350
T [°C]	≥ -10 - ≤ +450

Description
Bellows-type globe valve to DIN/EN with flanged ends (BOA-H and BOA-HV), butt weld ends or socket weld ends (BOA-HE and BOA-HEV), with on/off disc or throttling plug, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

Applications
Industrial plants, building services, power stations and shipbuilding. For water, steam, thermal oils, gas and other non-aggressive fluids. Other fluids on request.

m, e, p

https://www.ksb.com/en-gb/lc/B19A

NORI 40 ZXLBV/ZXSBV

PN	25/40
DN	10 - 200
T [°C]	≥ -10 - ≤ +450

Description
Bellows-type globe valve to DIN/EN with flanged ends (ZXLBV), butt weld ends or socket weld ends (ZXSBV), tapered on/off disc or throttling plug, two-piece stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water, steam, thermal oils, gas and other non-aggressive fluids. Other fluids on request.

m

https://www.ksb.com/en-gb/lc/N04A

NORI 40 ZXLB/ZXSB

PN	25/40
DN	10 - 200
T [°C]	≥ -10 - ≤ +450

Description
Bellows-type globe valve to DIN/EN with flanged ends (ZXLB), butt weld ends or socket weld ends (ZXSB), replaceable tapered on/off disc or throttling plug, two-piece stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

Applications
Industrial plants, power stations, process engineering and shipbuilding. For water, steam, thermal oils, gas and other non-aggressive fluids. Other fluids on request.

m, e, p

https://www.ksb.com/en-gb/lc/N03A

NORI 40 ZYLB/ZYSB

PN	25/40
DN	15 - 300
T [°C]	≥ -10 - ≤ +450

Description
Bellows-type globe valve to DIN/EN with flanged ends (ZYLB) or butt weld ends (ZYSB), Y-valve, with replaceable throttling plug (up to DN 100) or on/off disc (DN 125 and above), single-piece non-rotating stem, position indicator, travel stop, locking device; seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

Applications
Heat transfer systems, industrial plants, building services and shipbuilding. For thermal oils, water, steam, gas and other non-aggressive fluids. Other fluids on request.

m

https://www.ksb.com/en-gb/lc/N51A

BOACHEM-ZXAB/ZYAB

PN	10 - 40
DN	15 - 400
T [°C]	≥ -10 - ≤ +400

Description
Bellows-type globe valve to DIN/EN with flanged ends, body made of stainless steel, with replaceable on/off disc or throttling plug.

Applications
Process engineering, industry, building services, food and beverage industries, for aggressive fluids. Other fluids on request.

m, e, p

https://www.ksb.com/en-gb/lc/B39B

Bellows-type globe valves to ANSI/ASME

ECOLINE GLB 150-600

Class	150 - 600
NPS [inch]	2 - 12
T [°C]	≥ 0 - ≤ +427

Description
Globe valve to ANSI/ASME with flanged ends, cast steel/stainless steel body, trim and bellows made of stainless steel, with bolted bonnet, outside screw and yoke, sealed by graphite gland packing and metal bellows, stainless steel/graphite gaskets.

Applications
Petrochemical plants, chemical plants, power stations, process engineering and general industrial applications; for thermal oil, steam, toxic and volatile fluids. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/E14A

ECOLINE GLB 800

Class	150 - 800
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +427

Description
Globe valve to ANSI/ASME with threaded sockets (NPT) or socket weld ends (SW), cast steel/stainless steel body, trim and bellows made of stainless steel, outside screw and yoke, sealed by graphite gland packing and metal bellows, stainless steel/graphite gaskets.

Applications
Petrochemical plants, chemical plants, power stations, process engineering and general industrial applications; for thermal oil, steam, toxic and volatile fluids. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/E17A

Globe valves to DIN/EN with gland packing

NORI 40 ZXL/ZXS

PN	25/40
DN	10 - 400
T [°C]	≥ -10 - ≤ +450

Description
Globe valve to DIN/EN with flanged ends (ZXL), butt weld ends or socket weld ends (ZXS), with gland packing, with on/off disc or throttling plug, rotating stem, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

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

m

https://www.ksb.com/en-gb/lc/N02A

NORI 40 ZXLF/ZXSF

PN	25/40
DN	10 - 200
T [°C]	≥ -10 - ≤ +450

Description
Globe valve to DIN/EN with flanged ends (ZXLF), butt weld ends or socket weld ends (ZXSF), 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.

Applications
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/N05A

NORI 160 ZXL/ZXS

PN	63 - 160
DN	10 - 200
T [°C]	≥ -10 - ≤ +550

Description
Globe valve to DIN/EN with flanged ends (ZXL), butt weld ends or socket weld ends (ZXS), with gland packing, with on/off disc or throttling plug, rotating stem, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

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

m

https://www.ksb.com/en-gb/lc/N12A

NORI 160 ZXLF/ZXSF

PN	63 - 160
DN	10 - 200
T [°C]	≥ -10 - ≤ +550

Description
Globe valve to DIN/EN with flanged ends (ZXLF), butt weld ends or socket weld ends (ZXSF), 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.

Applications
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/N13A

NORI 320 ZXSV

PN	250 - 320
DN	10 - 50
T [°C]	≥ -10 - ≤ +580

Description
Globe valve to DIN/EN with butt weld or socket weld ends, gland packing, throttling plug, non-rotating stem, bayonet-type body/yoke connection, integrated position indicator, seat/disc interface made of Stellite.

Applications
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/N20A

NORI 500 ZXSV

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

Description
Globe valve to DIN/EN with butt weld or socket weld ends, gland packing, throttling plug, non-rotating stem, bayonet-type body/yoke connection, integrated position indicator, seat/disc interface made of Stellite.

Applications
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/N21A

BOACHEM-ZXA

PN	10 - 40
DN	15 - 400
T [°C]	≥ -10 - ≤ +400

Description
Globe valve to DIN/EN with flanged ends, body made of stainless steel, gland packing, rotating stem, with on/off disc or throttling plug.
Applications
Process engineering, industry, building services, food and beverage industries, for aggressive fluids. Other fluids on request.

m

https://www.ksb.com/en-gb/lc/B38B

ECOLINE VA16

PN	16
DN	15 - 250
T [°C]	≥ -10 - ≤ +300

Description
Globe valve to DIN/EN with flanged ends, body made of cast iron, with gland packing, rotating stem, with on/off disc or throttling plug.
Applications
District heating, domestic water supply, air-conditioning systems, cooling circuits, high-temperature hot water heating systems, water supply.

m, e

https://www.ksb.com/en-gb/lc/E72A

Globe valves to ANSI/ASME with gland packing

ECOLINE GLC 150-600

Class	150 - 600
NPS [inch]	2 - 10
T [°C]	≥ 0 - ≤ +649

Description
Globe valve to ANSI/ASME with flanged ends, cast steel A216 WCB, Trim 8 (Stellite/13 % chrome steel) for Class 150/300/600, Trim 5 (Stellite/Stellite) for Class 600, with bolted bonnet, outside screw and yoke, graphite gland packing, stainless steel/graphite gaskets.
Applications
Refineries, power stations, process engineering and general industrial applications; water, steam, oil, gas. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/E56A

ECOLINE GLF 150-600

Class	150 - 600
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +816

Description
Globe valve to ANSI/ASME with flanged ends, forged steel A105, Trim 8 (Stellite/13 % chrome steel), with bolted bonnet, outside screw and yoke, graphite gland packing, stainless steel/graphite gaskets, reduced bore.
Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

m, e

https://www.ksb.com/en-gb/lc/EF5A

ECOLINE GLF 800

Class	800
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +593

Description
Globe valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW), Trim 8 (Stellite/13 % chrome steel), with bolted bonnet, outside screw and yoke, graphite gland packing, stainless steel/graphite gaskets, available in carbon steel and alloy steel.
Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

m, e

https://www.ksb.com/en-gb/lc/E57A

Not available for worldwide sale Actuator/Automation

ECOLINE GLV 150-300

Class	150 - 300
NPS [inch]	2 - 12
T [°C]	≥ -29 - ≤ +427

Description
Globe valve to ANSI/ASME with flanged ends, cast steel A216 WCB, A351 CF8/CF8M/CN7M, Trims 2/8/10/13 for Class 150/300, with bolted bonnet, outside screw and yoke, graphite gland packing, stainless steel / graphite gasket.

Applications
Fine chemicals, food industry, general industry. For water, steam, gas and other fluids. Other fluids on request.

m, e https://www.ksb.com/en-gb/lc/EF3B

SICCA 150-600 GLC

Class	150 - 600
NPS [inch]	2 - 10
T [°C]	≥ 0 - ≤ +593

Description
Globe valve to ANSI/ASME with flanged or butt weld ends, bolted bonnet, outside screw and yoke. Rising stem, Stellite hard-faced seat/disc interface made of 13 % chrome steel, with graphite gasket and gland packing, available in carbon steel, low-alloy steel and stainless steel.

Applications
Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

m, e https://www.ksb.com/en-gb/lc/S76A

SICCA 900-2500 GLC

Class	900 - 2500
NPS [inch]	2 - 10
T [°C]	≥ 0 - ≤ +650

Description
Globe valve to ANSI/ASME with butt weld ends, Y-pattern, pressure seal design, outside screw and yoke, rising stem and non-rising handwheel, Stellite hard-faced seat/disc interface and back seat, with graphite gasket and gland packing. Available in carbon steel and alloy steel.

Applications
Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

m, e https://www.ksb.com/en-gb/lc/S82A

SICCA 150-4500 GLF

Class	150 - 4500
NPS [inch]	¼ - 2½
T [°C]	≥ 0 - ≤ +816

Description
Globe valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, or integral flange (Class 150 - 600) with bolted bonnet (Class 150 - 800) or welded bonnet (Class 1500/2500/4500), outside screw and yoke, Stellite hard-faced body seat, disc seating face made of Stellite hard-faced 13 % chrome steel, with graphite gaskets and gland packing. Available in carbon steel, low-alloy steel and stainless steel.

Applications
Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

m, e https://www.ksb.com/en-gb/lc/S80A

Globe valves for nuclear applications

NUCA globe valves

PN	≤ 210
DN	10 - 50
T [°C]	≥ -29 - ≤ +365

Description
Globe valve with butt weld or socket weld ends, for nuclear applications, with gland packing or bellows, replaceable seat (NUCA-ES), straight-way pattern, made of steel or stainless steel.

Applications
Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.

m, e, p https://www.ksb.com/en-gb/lc/N71A

ZXNB

PN	≤ 210
DN	65 - 400
T [°C]	≥ -29 - ≤ +365

Description
Bellows-type globe valve with butt weld ends, for nuclear applications with safety-related requirements, in straight-way or angle pattern, or as a two-way valve, made of steel or stainless steel.
Applications
Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.

m, e, p — https://www.ksb.com/en-gb/lc/Z18A

ZXNVB

PN	≤ 210
DN	4 - 25
T [°C]	≥ -29 - ≤ +365

Description
Globe valve with butt weld or socket weld ends, for nuclear applications, with gland packing or bellows, straight-way pattern, made of steel or stainless steel.
Applications
Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.

m — https://www.ksb.com/en-gb/lc/Z19A

ZYNB/ZYN

PN	≤ 50
DN	300 - 400
T [°C]	≥ -29 - ≤ +200

Description
Globe valve with butt weld ends, for nuclear applications with safety-related requirements, with gland packing or bellows, Y-valve, made of cast stainless steel.
Applications
Residual heat removal systems in nuclear applications.

e — https://www.ksb.com/en-gb/lc/Z18A

Control valves to DIN/EN

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

PN	6/10/16
DN	15 - 200
T [°C]	≥ -10 - ≤ +120

Description
Control valve to DIN/EN based on standard type series BOA-Compact, BOA-SuperCompact, BOA-W, BOA-Compact EKB, BOA-Compact IMS 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.
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
DN	15 - 200
T [°C]	≥ -10 - ≤ +450

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.

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
DN	15 - 200
T [°C]	≥ -10 - ≤ +450

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.

Applications
General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.

p

https://www.ksb.com/en-gb/lc/B72A

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 - 10
T [°C]	≥ -100 - ≤ +566

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 - 2
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 41000

Class	150 - 4500
NPS [inch]	½ - 36
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 - 2500
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 - 4500
NPS [inch]	½ - 36
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 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 - 4500
NPS [inch]	¾ - 20
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

Automatic recirculation valves

MIL 90000

Class	150 - 2500
NPS [inch]	1,5 - 12
T [°C]	≥ -29 - ≤ +260

Description
The automatic recirculation valve (ARV) is a multifunctional valve whose primary function is to ensure a pre-determined minimum flow through the centrifugal pump at all times.
Applications
Power stations, refineries, petrochemical industry.

e, h, p — https://www.ksb.com/en-gb/lc/M74A

Balancing and shut-off valves to DIN/EN

BOA-Control/BOA-Control IMS

PN	16
DN	15 - 350
T [°C]	≥ -10 - ≤ +120

Description
BOA-Control IMS:
Balancing valve to DIN/EN with flanged ends, single-piece body, with throttling plug, scaled position indicator, travel stop and insulating cap with anti-condensation feature, maintenance-free; full insulation possible; suitable for measuring flow rate with ultrasonic sensors and for temperature measurement, sensors not in contact with fluid handled, mobile measurements in combination with BOATRONIC MS measuring computer, permanent measurement set-up with BOATRONIC MS-420 measuring computer, constant accuracy independent of differential pressures. Also available with electrostatic plastic coating and DVGW-certified for drinking water (BOA-Control IMS EKB; up to DN 200).
BOA-Control:
Balancing valve to DIN/EN with flanged ends, single-piece body, with throttling plug, scaled position indicator, travel stop and insulating cap with anti-condensation feature, maintenance-free; full insulation possible; suitable for measuring flow rate with ultrasonic sensors and for temperature measurement, sensors not in contact with fluid handled, mobile measurements in combination with BOATRONIC MS measuring computer, constant accuracy independent of differential pressures. Also available with electrostatic plastic coating and DVGW-certified for drinking water (BOA-Control EKB; up to DN 200).
Applications
Hot-water heating systems up to 120 °C (BOA-Control and BOA-Control IMS), air-conditioning systems and cooling systems, and for permanent measurement set-ups (BOA-Control IMS), drinking water systems and industrial cooling circuits (EKB model). Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and uncoated grey cast iron.

m, e — https://www.ksb.com/en-gb/lc/B05B

BOA-Control PIC

PN	16/25
DN	10 - 150
T [°C]	≥ -10 - ≤ +120

Description
Pressure-independent combination valve, comprising a continuously adjustable flow controller and a control valve for hydraulic balancing and dynamic volume flow control at constant valve authority, with threaded ends (DN 10 - 50) or flanged ends (DN 65 - 150). Continuously variable adjustment of the volume flow rate setpoint directly at the valve thanks to the digital scale, with mechanical locking function. With measurement ports for checking the pressure and minimum differential pressure. Available in various volume flow rate control ranges (LF/HF) from 43 to 8586 l/h (valve with threaded ends) and from 4.4 to 160 m^3/h (valve with flanged ends). With actuator mounting option (M 30 x 1.5) for the electrical control of an additional variable such as room temperature by adjusting the volume flow.
Applications
Heating, air-conditioning and refrigerating systems (e.g. central heating systems, underfloor heating, fan coil units and cooling ceiling systems), and industrial plants.

m, e — https://www.ksb.com/en-gb/lc/B75A

BOA-Control SBV

PN	25
DN	15 - 50
T [°C]	≥ -10 - ≤ +120

Description
Maintenance-free balancing and measurement valve with female threaded ends, Y-pattern, continuous presetting, with position indicator readable from all angles (360°). Includes travel stop and 2 measurement ports with fixed measuring orifice (tolerance +/- 5 %) for measuring pressure, differential pressure and flow. Minimum space requirements thanks to non-rising handwheel and all functional parts being positioned on the same side as the handwheel.

Applications
Heating, air-conditioning and refrigerating systems, and industrial plants.

https://www.ksb.com/en-gb/lc/B79A

BOA-Control DPR

PN	16/25
DN	15 - 100
T [°C]	≥ -10 - ≤ +120

Description
Differential pressure control valve / proportional control valve for the constant control of an adjustable differential pressure setpoint without auxiliary energy, with threaded ends (DN 15 - 50) or flanged ends (DN 65 - 100). Setpoint can be adjusted continuously and read from the outside at any time. The valve closes automatically with rising pressure. Includes quick-measurement ports for measuring pressure loss. Available in various pressure control ranges (LP/HP) from 5 to 80 kPa (threaded ends) and from 80 to 160 kPa (flanged ends).

Applications
Heating, air-conditioning and refrigerating systems, and industrial plants.

https://www.ksb.com/en-gb/lc/B66A

Level control valves to DIN/EN

CONDA-VLC

PN	16
DN	25 - 300
T [°C]	≥ -10 - ≤ +70

Description
Float valve to DIN/EN for controlling maximum and minimum liquid levels in tanks, with flanged ends (DN 40-300) or threaded ends (DN 25-32), body made of nodular cast iron; valve disc, stem, float and seat made of stainless steel.

Applications
Water supply systems, industry and building services. For controlling water levels.

https://www.ksb.com/en-gb/lc/C52A

Pressure reducing valves to DIN/EN

CONDA-VRC

PN	16/25/40/63
DN	15 - 150
T [°C]	≥ -10 - ≤ +70

Description
Direct-acting pressure reducing valve to DIN/EN with flanged ends (DN 50-150) or threaded ends (DN 15-50), body made of nodular cast iron; valve disc, stem and seat made of stainless steel.

Applications
In water supply systems for controlling downstream pressure, in fire-fighting systems for reducing excess pressure caused by pumps, in irrigation systems, industry and building services as an efficient protection against water hammer.

https://www.ksb.com/en-gb/lc/C53A

Pressure sustaining valves to DIN/EN

CONDA-VSM

PN	16/25/40
DN	50 - 150
T [°C]	≥ -10 - ≤ +70

Description
Direct-acting pressure sustaining valve to DIN/EN with flanged ends, body made of nodular cast iron, valve disc, stem and seat made of stainless steel.
Applications
Controlling upstream pressure in water supply systems, irrigation systems or fire-fighting systems, in industry and building services.

https://www.ksb.com/en-gb/lc/C53A

Air valves to DIN/EN

BOAVENT-AVF

PN	16
DN	50 - 300
T [°C]	≥ -10 - ≤ +120

Description
Automatic air valve with two floats and three functions. Flanged ends, body made of nodular cast iron, double-chamber design with ABS floats. The air valve ensures proper operation of piping systems. It is specially designed to allow the entry and discharge of large volumes of air and the release of air pockets in working conditions.
Applications
Water supply, clean water, irrigation.

https://www.ksb.com/en-gb/lc/B45A

BOAVENT-SIF

PN	16
DN	25 - 200
T [°C]	≥ -10 - ≤ +70

Description
Automatic air valve with one float and three functions. With flanged ends (DN 25-300R) or threaded ends (DN 25-150), body made of stainless steel, single-chamber design with polypropylene float. The air valve ensures proper operation of piping systems. It is specially designed to allow the entry and discharge of large volumes of air and the release of air pockets in working conditions.
Applications
Water supply, clean water, irrigation.

https://www.ksb.com/en-gb/lc/B47A

BOAVENT-SVA

PN	16
DN	50 - 200
T [°C]	≥ -10 - ≤ +60

Description
Automatic air valve with one float and three functions. With flanged ends or threaded ends, body made of nodular cast iron, single-chamber design with polypropylene float. The air valve ensures proper operation of piping systems. It is specially designed to allow the entry and discharge of large volumes of air and the release of air pockets in working conditions.
Applications
Water supply, waste water, untreated waste water.

https://www.ksb.com/en-gb/lc/B46A

BOAVENT-SVF

PN	16/25/40
DN	25 - 300
T [°C]	≥ -10 - ≤ +70

Description
Automatic air valve with one float and three functions. With flanged ends (DN 25-300R) or threaded ends (DN 25-150), body made of nodular cast iron (PN 16-40) or carbon steel (PN 64), single-chamber design with polypropylene float. The air valve ensures proper operation of piping systems. It is specially designed to allow the entry and discharge of large volumes of air and the release of air pockets in working conditions.

Applications
Water supply, clean water, irrigation.

https://www.ksb.com/en-gb/lc/B47A

Vent valves for nuclear applications

SISTO-VentNA

PN	16
DN	15
T [°C]	≥ -20 - ≤ +100

Description
Soft-seated vent valve with butt weld ends, for nuclear applications

Applications
Heating systems, air-conditioning systems.

https://www.ksb.com/en-gb/lc/S53A

SISTO-KRVNA

PN	16
DN	25 - 100
T [°C]	≥ -20 - ≤ +100

Description
Vent valve with flanged or butt weld ends, for nuclear applications, soft-seated, with floating ball.

Applications
Tank venting, drainage systems.

https://www.ksb.com/en-gb/lc/S35A

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

Gate valves to DIN/EN

COBRA-SGP/SGO

PN	10/16
DN	40 - 600
T [°C]	≥ -10 - ≤ +110

Description
Gate valve to DIN/EN with flanged ends, elastomer-coated wedge, bolted bonnet, rotating stem, inside screw, body made of nodular cast iron.

Applications
Water supply systems, water treatment systems, air-conditioning systems.

m, e https://www.ksb.com/en-gb/lc/C50A

COBRA-SMP

PN	16
DN	40 - 300
T [°C]	≥ -10 - ≤ +110

Description
Gate valve to DIN/EN with flanged ends, bolted bonnet, metal-seated, rotating stem, inside screw, body and flexible wedge made of nodular cast iron, stem and seats made of stainless steel.

Applications
Water supply systems, heating systems, air-conditioning systems, general industrial applications, building services.

m, e https://www.ksb.com/en-gb/lc/C47A

ECOLINE SP

PN	10/16/25
DN	40 - 600
T [°C]	≥ -10 - ≤ +110

Description
Gate valve to DIN/EN with flanged ends, bolted bonnet, metal-seated, rotating stem, inside screw, body made of cast iron, seats made of brass.

Applications
Water supply systems, heating systems, air-conditioning systems, general industrial applications, water engineering, building services.

m, e https://www.ksb.com/en-gb/lc/E71A

ECOLINE GT 40

PN	10 - 40
DN	50 - 600
T [°C]	≥ -10 - ≤ +400

Description
Gate valve to DIN/EN with flanged ends or butt weld ends, bolted bonnet, body made of cast steel, non-rotating stem, with flexible wedge, seat/disc interface made of wear and corrosion resistant 13 % chrome steel or Stellite.

Applications
Industrial plants, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

m, e https://www.ksb.com/en-gb/lc/EF2A

STAAL 40 AKD/AKDS

PN	10 - 40
DN	50 - 900
T [°C]	≥ -10 - ≤ +530

Description
Gate valve to DIN/EN with flanged ends (AKD) or butt weld ends (AKDS), with bolted bonnet, body of forged or welded construction, non-rotating stem, split wedge with flexibly mounted discs for precise alignment with the body seats. Seat/disc interface made of wear and corrosion resistant 17 % chrome steel.

Applications
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 https://www.ksb.com/en-gb/lc/S16A

STAAL 100 AKD/AKDS

PN	63 - 100
DN	50 - 600
T [°C]	≥ -10 - ≤ +530

Description
Gate valve to DIN/EN with flanged ends (AKD) or butt weld ends (AKDS), with bolted bonnet, body of forged or welded construction, non-rotating stem, split wedge with flexibly mounted discs for precise alignment with the body seats. Seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

Applications
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/S32A

AKG-A/AKGS-A

PN	63 - 160
DN	65 - 300
T [°C]	≥ -10 - ≤ +550

Description
Gate valve to DIN/EN with flanged ends (AKG-A) or butt weld ends (AKGS-A), pressure seal design, body of forged or welded construction, non-rotating stem, split wedge with flexibly mounted discs for precise alignment with the body seats. Seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

Applications
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/A01A

ZTS

PN	≤ 600
Class	4500
DN	50 - 800
NPS [inch]	2 - 32
T [°C]	≥ -10 - ≤ +650

Description
Gate valve to DIN/EN or ANSI/ASME with butt weld ends, pressure seal design, billet-forged body, seat/disc interface made of wear and corrosion resistant Stellite, split wedge with flexibly mounted discs for precise alignment with the body seats.

Applications
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/Z05A

Gate valves to ANSI/ASME

ECOLINE GTB 150-600

Class	150 - 600
NPS [inch]	2 - 12
T [°C]	≥ 0 - ≤ +427

Description
Gate valve to ANSI/ASME with flanged ends or butt weld ends, cast steel/stainless steel body, trim and bellows made of stainless steel, with bolted bonnet, outside screw and yoke, sealed by graphite gland packing and metal bellows, stainless steel/graphite gaskets.

Applications
Petrochemical plants, chemical plants, power stations, process engineering and general industrial applications; for thermal oil, steam, toxic and volatile fluids. Other fluids on request.

m, e https://www.ksb.com/en-gb/lc/EH7A

ECOLINE GTB 800

Class	150 - 800
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +427

Description
Gate valve to ANSI/ASME with threaded sockets (NPT) or socket weld ends (SW), cast steel/stainless steel body, trim and bellows made of stainless steel, bolted bonnet, outside screw and yoke, sealed by graphite gland packing and metal bellows, stainless steel/graphite gaskets.

Applications
Petrochemical plants, chemical plants, power stations, process engineering and general industrial applications; for thermal oil, steam, toxic and volatile fluids. Other fluids on request.

m, e https://www.ksb.com/en-gb/lc/E20A

ECOLINE GTC 150-600

Class	150 - 600
NPS [inch]	2 - 24
T [°C]	≥ 0 - ≤ +649

Description
Gate valve to ANSI/ASME with flanged ends, cast steel A216 WCB, Trim 8 (Stellite/13 % chrome steel) for Class 150/300/600, Trim 5 (Stellite/Stellite) for Class 600, with bolted bonnet, outside screw and yoke, non-rotating stem, flexible wedge, graphite gland packing, stainless steel/graphite gaskets.

Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

m, e

https://www.ksb.com/en-gb/lc/E59A

ECOLINE GTF 150-600

Class	150 - 600
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +816

Description
Gate valve to ANSI/ASME with flanged ends, forged steel A105, Trim 8 (Stellite/13 % chrome steel), with bolted bonnet, outside screw and yoke, non-rotating stem, single-piece wedge, graphite gland packing, stainless steel/graphite gaskets, reduced bore.

Applications
Industrial applications, power stations, process engineering, refineries, oil and marine applications; water, steam, gas, oil and other non-aggressive fluids.

m, e

https://www.ksb.com/en-gb/lc/EF6A

ECOLINE GTF 800

Class	800
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +593

Description
Gate valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW), Trim 8 (Stellite/13 % chrome steel), with bolted bonnet, outside screw and yoke, single-piece wedge, graphite gland packing, stainless steel/graphite gaskets, available in carbon steel and alloy steel.

Applications
Industrial applications, power stations, process engineering, refineries, oil and marine applications; water, steam, gas, oil and other non-aggressive fluids.

m, e

https://www.ksb.com/en-gb/lc/E61A

ECOLINE GTV 150-300

Class	150 - 300
NPS [inch]	2 - 12
T [°C]	≥ -29 - ≤ +427

Description
Gate valve to ANSI/ASME with flanged ends, cast steel A216 WCB, A351 CF8/CF8M/CN7M, Trims 2/8/10/13 for Class 150/300, with bolted bonnet, outside screw and yoke, non-rotating stem, flexible wedge, graphite gland packing, stainless steel / graphite gasket.

Applications
Fine chemicals, food industry, general industry; water, steam, gas and other fluids.

m, e

https://www.ksb.com/en-gb/lc/EE9B

SICCA 150-600 GTC

Class	150 - 600
NPS [inch]	2 - 24
T [°C]	≥ 0 - ≤ +593

Description
Gate valve to ANSI/ASME with flanged or butt weld ends, with bolted bonnet, outside screw and yoke, flexible wedge, rising stem, non-rising handwheel, Stellite hard-faced seat/disc interface made of 13 % chrome steel, with graphite gasket and gland packing. Available in carbon steel, low-alloy steel and stainless steel.

Applications
Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/S77A

SICCA 900-3600 GTC

Class	900 - 3600
NPS [inch]	2 - 32
T [°C]	≥ 0 - ≤ +650

Description
Gate valve to ANSI/ASME with butt weld ends, pressure seal design, split wedge, outside screw and yoke, rising stem and non-rising handwheel, Stellite hard-faced seat/disc interface and back seat, with graphite gasket and gland packing. Available in carbon steel and alloy steel.

Applications
Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/S83A

SICCA 150-2500 GTF

Class	150 - 2500
NPS [inch]	¼ - 2½
T [°C]	≥ 0 - ≤ +816

Description
Gate valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, or integral flange (Class 150 - 600) with bolted bonnet (Class 150 - 800) or welded bonnet (Class 1500/2500), solid wedge, outside screw and yoke, Stellite hard-faced seat/disc interface made of 13 % chrome steel, with graphite gaskets and gland packing. Available in carbon steel, low-alloy steel and stainless steel.

Applications
Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

m, e

https://www.ksb.com/en-gb/lc/S79A

Gate valves for nuclear applications

ZTN

PN	≤ 320
DN	80 - 700
T [°C]	≥ -29 - ≤ +365

Description
Gate valve with butt weld ends, for nuclear applications, with bolted or pressure seal bonnet, forged or welded body, non-rotating stem, in split-wedge or parallel-disc design, made of steel or stainless steel.

Applications
Reactor cooling, safety feed, feed water, live steam, cleaning and condensate systems.

m, e, p

https://www.ksb.com/en-gb/lc/Z14A

Body pressure relief valves

UGS

PN	≥ 10
DN	10 - 15

Description
Spring-loaded body pressure relief valve to DIN/EN, with or without bursting disc, for gate valves in pressure seal design.

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

https://www.ksb.com/en-gb/lc/U18A

Knife gate valves to DIN/EN

HERA-BD

PN	10
DN	50 - 1200
T [°C]	≥ -10 - ≤ +120

Description
Knife gate valve to DIN/EN with wafer-type single-piece or two-piece body made of nodular cast iron, bi-directional, with gland packing, non-rising stem, corrosion-protected by epoxy coating.

Applications
Industrial plants, waste water engineering, process engineering and food industry. For water, waste water and solids-laden fluids. Other fluids on request.

m, e, p

https://www.ksb.com/en-gb/lc/H62A

Knife gate valves to ANSI/ASME

HERA-BDS

Class	150
DN	50 - 600
T [°C]	≥ -10 - ≤ +120

Description
Knife gate valve to ANSI/ASME with full-lug body made of carbon steel or stainless steel; bi-directional, with gland packing, rubber-lined, rising stem, non-rising handwheel.

Applications
Primarily in mining for handling slurries, abrasive fluids and high-density fluids; also in pulp applications, cement plants, waste water treatment plants and the chemical industry. Other fluids on request.

m, e, p

https://www.ksb.com/en-gb/lc/H10A

HERA-BHT

Class	150
DN	80 - 600
T [°C]	≥ -10 - ≤ +100

Description
Knife gate valve to ANSI/ASME with semi-lug body made of carbon steel or stainless steel, bi-directional, with gland packing, through-going blade, rising stem, non-rising handwheel, robust yoke for actuator mounting as standard.

Applications
Primarily in mining for handling slurries and high-density fluids; excellent flow characteristic due to through-going blade; also in pulp applications and water applications. Other fluids on request.

m, e, p

https://www.ksb.com/en-gb/lc/H09A

HERA-SH

Class	150
DN	50 - 1000
T [°C]	≥ -10 - ≤ +180

Description
Knife gate valve to ANSI/ASME with full-lug single-piece body made of carbon steel or stainless steel; uni-directional, with gland packing, rising stem, non-rising handwheel.

Applications
Industrial plants and waste water engineering, pulp and paper industry, food and beverage industry, chemical industry. For water, waste water and solids-laden fluids. Other fluids on request.

m, e, p

https://www.ksb.com/en-gb/lc/HB5A

Lift check valves to DIN/EN

BOA-RPL/RPL F-F

PN	10/16
DN	25 - 400
T [°C]	≥ -10 - ≤ +70

Description
Ball check valve to DIN/EN with flanged or female/female-threaded ends, made of nodular cast iron, NBR-coated ball, bolted cover, suitable for installation in vertical or horizontal pipes.

Applications
Water supply systems, water treatment systems, waste water.

https://www.ksb.com/en-gb/lc/B44A

BOA-RFV

PN	10/16/25/40/63
DN	40 - 600
T [°C]	≥ -10 - ≤ +90

Description
Nozzle check valve to DIN/EN with flanged ends, Venturi-type body, max. flow velocity 2.5 m/s. Body made of cast iron, check disc made of brass and cast iron, seat made of stainless steel. Suitable for installation in horizontal or vertical pipes. Rapid closure without surge pressures.

Applications
Water supply systems, heating systems, air-conditioning systems.

https://www.ksb.com/en-gb/lc/B43A

BOA-RVK

PN	6/10/16
DN	15 - 200
T [°C]	≥ -20 - ≤ +250

Description
Lift check valve to DIN/EN with wafer-type body, centring aided by the body shape, shut-off by spring-loaded plate or valve disc guided by three stainless steel guiding pins. Low-noise designs with plastic plate (DN 15 - 100) or valve disc with O-ring (DN 125 - 200), maintenance-free.

Applications
Industrial plants and heating systems, liquids and gases, hot-water heating systems, high-temperature hot water heating systems, heat transfer systems. Any limits given in the technical codes must be complied with. Not suitable for fluids liable to attack the materials used. Other fluids on request.

https://www.ksb.com/en-gb/lc/B11A

BOA-R

PN	6/16
DN	15 - 350
T [°C]	≥ -10 - ≤ +350

Description
Lift check valve to DIN/EN with flanged ends, spring-loaded valve disc, maintenance-free.

Applications
Hot-water heating systems, high-temperature hot water heating systems, heat transfer systems. General steam applications in building services and industry. Other fluids on request.

https://www.ksb.com/en-gb/lc/B10A

NORI 40 RXL/RXS

PN	25/40
DN	10 - 300
T [°C]	≥ -10 - ≤ +450

Description
Lift check valve to DIN/EN with flanged ends (RXL), butt weld ends or socket weld ends (RXS), check disc with closing spring, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

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

https://www.ksb.com/en-gb/lc/N00A

NORI 160 RXL/RXS

PN	63 - 160
DN	10 - 200
T [°C]	≥ -10 - ≤ +550

Description
Lift check valve to DIN/EN with flanged ends (RXL), butt weld ends or socket weld ends (RXS), check disc with closing spring, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

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

https://www.ksb.com/en-gb/lc/N10A

RGS

PN	250 - 500
DN	10 - 50
T [°C]	≥ -10 - ≤ +580

Description
Lift check valve to DIN/EN with butt weld or socket weld ends, Y-pattern, check disc with closing spring, pressure seal design, Hastelloy-faced body seats.

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

https://www.ksb.com/en-gb/lc/R01A

BOACHEM-RXA

PN	10 - 40
DN	15 - 400
T [°C]	≥ -10 - ≤ +400

Description
Lift check valve to DIN/EN with flanged ends, body made of stainless steel, check disc with closing spring, lapped seat/disc interface.

Applications
Process engineering, industry, building services, food and beverage industries, for aggressive fluids. Other fluids on request.

https://www.ksb.com/en-gb/lc/B37B

Lift check valves to ANSI/ASME

ECOLINE PTF 150-600

Class	150 - 600
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +816

Description
Lift check valve to ANSI/ASME with flanged ends, forged steel A105, Trim 8 (Stellite/13 % chrome steel), reduced bore, with bolted cover, spring-loaded valve disc.

Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

https://www.ksb.com/en-gb/lc/E63A

ECOLINE PTF 800

Class	800
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +593

Description
Lift check valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW), Trim 8 (Stellite/13 % chrome steel), with bolted cover, spring-loaded valve disc, available in carbon steel and alloy steel.

Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

https://www.ksb.com/en-gb/lc/E64A

Not available for worldwide sale Actuator/Automation

SICCA 150-4500 PCF

Class	150 - 4500
NPS [inch]	¼ - 2½
T [°C]	≥ 0 - ≤ +816

Description
Lift check valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW) or integral flange (Class 150 - 600), Trim 8 (Stellite/13 % chrome steel), with bolted cover (Class 150 - 800) or welded cover (Class 1500/2500/4500), spring-loaded check disc, available in carbon steel, low-alloy steel and stainless steel.

Applications
Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

https://www.ksb.com/en-gb/lc/S81A

Lift check valves for nuclear applications

NUCA lift check valves

PN	≤ 210
DN	10 - 50
T [°C]	≥ -29 - ≤ +365

Description
Lift check valve with butt weld ends or socket weld ends, for nuclear applications, with replaceable seat (NUCA-ES), straight-way pattern, made of steel or stainless steel.

Applications
Reactor cooling, moderator, safety feed, feed water, live steam and cleaning systems.

https://www.ksb.com/en-gb/lc/N74A

RJN

PN	≤ 140
DN	80 - 600
T [°C]	≥ -29 - ≤ +300

Description
Damped lift check valve with butt weld ends, for nuclear applications, individually selectable damping characteristic, made of steel or stainless steel.

Applications
Feed water and live steam systems.

RYN

PN	≤ 210
DN	65 - 300
T [°C]	≥ -29 - ≤ +365

Description
Combined lift check/shut-off valve with butt weld ends, for nuclear applications, Y-pattern, with gland packing or bellows, made of steel or stainless steel.

Applications
Feed water and live steam systems.

https://www.ksb.com/en-gb/lc/R67A

Swing check valves to DIN/EN

ECOLINE WT/WTI

PN	16
DN	50 - 300
T [°C]	≥ -10 - ≤ +110

Description
Swing check valve to DIN/EN with wafer-type body; body and valve disc made of carbon steel (WT) or stainless steel (WTI), O-ring made of Viton.

Applications
Irrigation systems, district heating, domestic water supply, waste water treatment plants, air-conditioning systems, cooling circuits, water supply systems.

https://www.ksb.com/en-gb/lc/E80A

STAAL 40 AKK/AKKS

PN	10 - 40
DN	80 - 400
T [°C]	≥ -10 - ≤ +450

Description
Swing check valve to DIN/EN with flanged ends (AKK) or butt weld ends (AKKS), with bolted cover, internally mounted hinge pin, body of welded construction, seat/disc interface made of wear and corrosion resistant 17 % chrome steel.

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

https://www.ksb.com/en-gb/lc/S34A

STAAL 100 AKK/AKKS

PN	63 - 100
DN	80 - 400
T [°C]	≥ -10 - ≤ +530

Description
Swing check valve to DIN/EN with flanged ends (AKK) or butt weld ends (AKKS), with bolted cover, internally mounted hinge pin, body of forged or welded construction, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

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

https://www.ksb.com/en-gb/lc/S36A

AKR/AKRS

PN	63 - 160
DN	80 - 300
T [°C]	≥ -10 - ≤ +550

Description
Swing check valve to DIN/EN with flanged ends (AKR) or butt weld ends (AKRS), pressure seal design, internally mounted hinge pin, body of forged and welded construction, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

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

https://www.ksb.com/en-gb/lc/A03A

ZRS

PN	≤ 600
DN	50 - 800
T [°C]	≥ -10 - ≤ +650

Description
Swing check valve to DIN/EN with butt weld ends, pressure seal design, internally mounted hinge pin, billet-forged body; seat/disc interface made of wear and corrosion resistant Stellite.

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

https://www.ksb.com/en-gb/lc/Z01A

SISTO-RSK/RSKS

PN	16
DN	25 - 300
T [°C]	≥ -20 - ≤ +140

Description
Swing check valve to DIN/EN with flanged ends, in straight-way pattern, full bore, body with coating or lining, slanted-seat design, static sealing to atmosphere; with soft rubber encapsulated pre-loaded valve disc featuring short travel to closure.

Applications
Building services, industry and power stations; suitable for drinking water, service water, fluids handled in the food and beverage industry, abrasive and aggressive products in chemical engineering and process engineering.

https://www.ksb.com/en-gb/lc/S65A

SERIE 2000

PN	16
Class	150/300
DN	50 - 600
T [°C]	≥ -196 - ≤ +538

Description
Dual-plate check valve with single-piece, wafer-type body made of lamellar graphite cast iron, nodular cast iron, steel or stainless steel; metal/elastomer-seated or metal/metal-seated, maintenance-free, connections to EN, ASME or JIS.

Applications
Building services: heating, air-conditioning, water supply, irrigation, water treatment. General processes: water, air, gas. Process engineering, chemical and petrochemical industry, sugar industry, paper industry, water supply, desalination, marine applications: water, air, gas, hydrocarbons.

https://www.ksb.com/en-gb/lc/S51A

Swing check valves to ANSI/ASME

ECOLINE SCC 150-600

Class	150 - 600
NPS [inch]	2 - 24
T [°C]	≥ 0 - ≤ +816

Description
Swing check valve to ANSI/ASME with flanged ends, cast steel A216 WCB, Trim 8 (Stellite/13 % chrome steel) for Class 150/300/600, Trim 5 (Stellite/Stellite) for Class 600, with bolted cover, internally mounted hinge pin (2"-12"), stainless steel/graphite gaskets.

Applications
Refineries, power stations, process engineering and general industry; water, steam, oil, gas. Other fluids on request.

https://www.ksb.com/en-gb/lc/E68A

ECOLINE SCF 150-600

Class	150 - 600
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +816

Description
Swing check valve to ANSI/ASME with flanged ends, forged steel A105, Trim 8 (Stellite/13 % chrome steel), reduced bore, with bolted cover, internally mounted hinge pin.

Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

https://www.ksb.com/en-gb/lc/EF7A

ECOLINE SCF 800

Class	800
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +593

Description
Swing check valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW), Trim 8 (Stellite/13 % chrome steel), with bolted cover (Class 800) or welded cover (Class 1500 and 2500), internally mounted hinge pin, available in carbon steel and alloy steel.

Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

https://www.ksb.com/en-gb/lc/E70A

ECOLINE SCV 150-300

Class	150 - 300
NPS [inch]	2 - 12
T [°C]	≥ -29 - ≤ +427

Description
Swing check valve to ANSI/ASME with flanged ends, cast steel A216 WCB, A351 CF8/CF8M/CN7M, Trims 2/8/10/13 for Class 150/300, with bolted cover and stainless steel / graphite gasket.

Applications
Fine chemicals, food industry and general industry. For water, steam, gas and other fluids. Other fluids on request.

https://www.ksb.com/en-gb/lc/EF4B

SICCA 150-600 SCC

Class	150 - 600
NPS [inch]	2 - 24
T [°C]	≥ 0 - ≤ +593

Description
Swing check valve to ANSI/ASME with flanged or butt weld ends, with bolted cover, internally bracket-mounted hinge pin (up to NPS 12) and body-mounted hinge pin (NPS > 12). Bigger nominal sizes with anti-slam/dash pot arrangement (optional), graphite gaskets. Stellite hard-faced seat/disc interface made of 13 % chrome steel. Available in carbon steel, low-alloy steel and stainless steel.

Applications
Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

https://www.ksb.com/en-gb/lc/S78A

SICCA 900-3600 SCC

Class	900 - 3600
NPS [inch]	2 - 28
T [°C]	≥ 0 - ≤ +650

Description
Swing check valve to ANSI/ASME with butt weld ends, pressure seal design, internally mounted hinge pin, Stellite hard-faced seat/disc interface, with graphite gasket. Available in carbon steel and alloy steel.

Applications
Power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.

https://www.ksb.com/en-gb/lc/S84A

Swing check valves for nuclear applications

SISTO-RSKNA

PN	16
DN	25 - 300
T [°C]	≥ -20 - ≤ +100

Description
Swing check valve with flanged ends, body with or without lining, soft-seated, no dead volumes, straight-way pattern, full bore, slanted seat, static sealing to atmosphere; with soft rubber encapsulated pre-loaded valve disc featuring short travel to closure.

Applications
Waste water systems, pump systems.

https://www.ksb.com/en-gb/lc/S52A

ZRN

PN	≤ 210
DN	80 - 700
T [°C]	≥ -29 - ≤ +365

Description
Swing check valve for nuclear applications, with butt weld ends, with bolted cover, internally mounted hinge pin, forged body made of steel or stainless steel.

Applications
Safety feed, feed water, live steam and condensate systems.

https://www.ksb.com/en-gb/lc/Z13A

Not available for worldwide sale Actuator/Automation

Tilting disc check valves to DIN/EN

COBRA-TDC01/03

PN	10/16/25/40
DN	150 - 1400
T [°C]	≥ -10 - ≤ +80

Description
Tilting disc check valve to DIN/EN with flanged ends, with lever and counterweight/hydraulic damper, body and valve disc made of nodular cast iron, body seats made of stainless steel.
Applications
Water supply systems

https://www.ksb.com/en-gb/lc/C51A

Strainers to DIN/EN

BOA-S

PN	6/16/25
DN	15 - 400
T [°C]	≥ -10 - ≤ +350

Description
Strainer to DIN/EN with flanged ends, with standard or fine screen; all nominal sizes with drain plug in the cover. Made of grey cast iron or nodular cast iron.
Applications
Hot-water heating systems, high-temperature hot water heating systems, heat transfer systems. General steam applications in building services and industry. Other fluids on request.

https://www.ksb.com/en-gb/lc/B09A

NORI 40 FSL/FSS

PN	25/40
DN	15 - 300
T [°C]	≥ -10 - ≤ +450

Description
Strainer to DIN/EN with flanged ends (FSL) or butt weld ends (FSS), made of cast steel, with standard or fine screen; all nominal sizes with drain plug in the cover, optional magnetic insert.
Applications
Heat transfer systems, industrial plants, building services and shipbuilding. For thermal oils, water, steam, gas and other non-aggressive fluids. Other fluids on request.

https://www.ksb.com/en-gb/lc/N33A

BOACHEM-FSA

PN	10 - 40
DN	15 - 400
T [°C]	≥ -10 - ≤ +400

Description
Strainer to DIN/EN with flanged ends, body made of stainless steel, with standard or fine screen; all nominal sizes with drain plug in the cover.
Applications
Process engineering, industry, building services, food and beverage industries, for aggressive fluids. Other fluids on request.

https://www.ksb.com/en-gb/lc/B36B

Strainers to ANSI/ASME

ECOLINE FYC 150-600

Class	150 - 600
NPS [inch]	2 - 12
T [°C]	≥ 0 - ≤ +816

Description
Strainer to ANSI/ASME with flanged ends, Y-pattern, bolted cover, cast steel A216 WCB, screen made of stainless steel 304, mesh width 1.5 mm.

Applications
Refineries, power stations, process engineering and general industry; water, steam, oil, gas. Other fluids on request.

https://www.ksb.com/en-gb/lc/E53A

ECOLINE FYF 800

Class	800
NPS [inch]	½ - 2
T [°C]	≥ 0 - ≤ +816

Description
Strainer to ANSI/ASME with threaded sockets (NPT) or socket weld ends (SW), Y-pattern, with bolted cover, forged steel A105, screen made of stainless steel 304. Mesh width 0.8 to 0.9 mm.

Applications
Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

https://www.ksb.com/en-gb/lc/EG1A

Centred-disc butterfly valves

BOAX-CBV13

PN	10/16
DN	50 - 1200
T [°C]	≥ -10 - ≤ +70

Description
Centred-disc butterfly valve with epoxy coating. Perfect shut-off in either flow direction. Flanged ends to EN standards, body made of nodular cast iron, valve disc made of stainless steel.

Applications
Shut-off or control duties, drinking water, seawater, water supply systems, water treatment systems and water distribution systems, waste water, irrigation, ultra-pure water, air, oil.

m, e, p

https://www.ksb.com/en-gb/lc/B49A

BOAX-S/SF

PN	6/10/16
DN	20 - 600
T [°C]	≥ -10 - ≤ +130

Description
Centred-disc butterfly valve with ISO 5211 compliant square shaft end for butterfly valves from DN 350, with heat barrier and elastomer liner (EPDM XU or nitrile K), with lever, manual gearbox or electric actuator (BOAXMAT-S and BOAXMAT-SF); semi-lug body (T2) or full-lug body (T4) for downstream dismantling and dead-end service. Valve disc made of stainless steel 1.4308, connections to EN.

Applications
Building services, heating, ventilation, air-conditioning systems, for drinking water.

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

https://www.ksb.com/en-gb/lc/B12A

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

ISORIA 10/16

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

Description
Centred-disc butterfly valve with ISO 5211 compliant square shaft end, sealed by elastomer liner, with lever or 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 and T4 are suitable for downstream dismantling and dead-end service with counterflange. Connections to EN, ASME, JIS.

Applications
Shut-off and control duties in all industrial and energy sectors.

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

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

ISORIA 20/25

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

Description
Centred-disc butterfly valve with ISO 5211 compliant square shaft end, sealed by elastomer liner, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Semi-lug body (T2), full-lug body (T4) or U-section body with flat faces (T5). Body types T2, T4 and T5 are suitable for downstream dismantling and dead-end service with counterflange. Connections to EN, ASME, JIS.

Applications
Shut-off and control duties in all industrial and energy sectors.

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

https://www.ksb.com/en-gb/lc/I02A

MAMMOUTH

PN	6/10/16/20/25
DN	1050 - 4000
T [°C]	≥ 0 - ≤ +80

Description
Centred-disc butterfly valve, sealed by elastomer liner, with manual gearbox, electric, hydraulic or counterweight actuator, U-section body with flat faces (T5), connections to EN, ASME or JIS.

Applications
Water supply, water treatment, irrigation, drainage, desalination (reverse osmosis, multi-stage flash), industry. Cooling circuits and fire protection. Shipbuilding, steel industry and power stations (hydraulic, thermal, nuclear). Shut-off and control duties in all industrial sectors.

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

https://www.ksb.com/en-gb/lc/M01A

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

Double-offset butterfly valves

APORIS-DEB02

PN	10/16/25/40
DN	100 - 2200
T [°C]	≥ -10 - ≤ +80

Description
Double-offset butterfly valve with epoxy coating. Perfect shut-off in either flow direction. Flanged ends to EN standards, body and valve disc made of nodular cast iron.

Applications
Shut-off or control duties; drinking water, seawater, air, water engineering.

m, e, p https://www.ksb.com/en-gb/lc/A80A

DANAÏS 150

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

Description
Double-offset butterfly valve with ISO 5211 compliant square shaft end, with plastomer seat (also in fire-safe design), metal seat or elastomer seat (FKM [VITON R] or NBR [nitrile]). Lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of nodular cast iron, cast steel, stainless steel or duplex stainless steel (254 SMO). Wafer-type body (T1), full-lug body (T4), T4 suitable for downstream dismantling and dead-end service with counterflange. Connections to EN, ASME or JIS. Fire-safe design tested and certified to API 607. Fugitive emissions performance tested and certified to EN ISO 15848-1. ATEX-compliant version in accordance with Directive 2014/34/EU.

Applications
Petroleum, gas, chemical and petrochemical industry, marine applications, transport of petroleum products and chemicals, sugar industry, geothermal energy, shipbuilding, low-pressure steam, vacuum service, mining, corrosive fluids, cleaning agents, highly aggressive fluids, brine, paper and pulp industry, fertilisers. All applications requiring offset-disc butterfly valves.

m, e, h, p + AMTROBOX/AMTRONIC U/SMARTRONIC U https://www.ksb.com/en-gb/lc/D01A

DANAÏS MTII

PN	25/50
Class	150/300
DN	50 - 600
T [°C]	≥ -50 - ≤ +260

Description
Double-offset butterfly valve with ISO 5211 compliant square shaft end, with plastomer seat or metal seat (fire-safe), without gland packing, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator, body made of steel or stainless steel. Wafer-type body (T1), full-lug body (T4) or flanged body (T7) with flat or raised faces. Body types T4 and T7 are suitable for dead-end service. Connections to EN, ASME or JIS. Certified to German TA Luft Technical Guidelines on Air Quality Control.

Applications
Petroleum, gas, chemical and petrochemical industry, nuclear power stations, onshore and offshore plants; steam, vacuum and all applications requiring offset-disc butterfly valves; industrial gases (air separation units, GOX and LOX)

m, e, h, p + AMTROBOX/AMTRONIC U/SMARTRONIC U https://www.ksb.com/en-gb/lc/D02A

DANAÏS CRYO

PN	≤ 25
Class	150
DN	80 - 1200
T [°C]	≥ -253 - ≤ +200

Description
Double-offset butterfly valve for cryogenic applications; body with flanged ends (T7) with raised faces, or body with butt weld ends made of stainless steel to ASME Class 150, JIS, fire-safe design.

Applications
Liquefied natural gas (LNG) in LNG terminals and LNG tank farms, for marine transport. Supply of liquefied natural gas, hydrogen or ammonia.

m, e, h, p + AMTROBOX/AMTRONIC U/SMARTRONIC U https://www.ksb.com/en-gb/lc/D40A

DANAÏS CRYO AIR

PN	10/16
Class	150
DN	50 - 600
T [°C]	≥ -253 - ≤ +200

Description
Double-offset butterfly valve for cryogenic applications, wafer-type body (T1), full-lug body (T4).

Applications
Air separation units (nitrogen, oxygen, argon, etc.), hydrogen, helium, Teisan Compact Nitrogen (TCN).

m, e, h, p + AMTROBOX/AMTRONIC U/SMARTRONIC U https://www.ksb.com/en-gb/lc/D16A

Not available for worldwide sale Actuator/Automation

Triple-offset butterfly valves

TRIODIS 150

PN	≤ 25
Class	150
DN	50 - 1200
T [°C]	≥ -196 - ≤ +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 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.

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

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

TRIODIS 300

PN	≤ 50
Class	300
DN	80 - 1200
T [°C]	≥ -196 - ≤ +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.

m, p + AMTROBOX/AMTRONIC U/SMARTRONIC U

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

TRIODIS 600

PN	≤ 100
Class	600
DN	150 - 1000
T [°C]	≥ -196 - ≤ +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 types T4 and T7 are suitable for dead-end service. Connections to EN, ASME or JIS (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 BS 6775-2. ATEX-compliant 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.

m, p + AMTROBOX/AMTRONIC U/SMARTRONIC U

https://www.ksb.com/en-gb/lc/T12A

Butterfly valves for nuclear applications

CLOSSIA

PN	≤ 5,5
DN	250/500/750/1000
T [°C]	≥ -20 - ≤ +170

Description
Double-offset butterfly valve, metal-seated, maintenance-free. Steel body with one flanged and one weld end connection. With safety actuator with manual, pneumatic or electric actuation.

Applications
In the containment of nuclear power stations.

m, e, p

https://www.ksb.com/en-gb/lc/C71A

Combined butterfly/check valve

DUALIS

DN	500 - 1400
T [°C]	≥ -10 - ≤ +65

Description
Combined butterfly/check valve with single-acting hydraulically controlled counterweight actuator. For mounting on valves with DN 500 to 1400.

Applications
For installation in the pump discharge lines of pumping stations. Power station cooling circuits. Protects pipelines and turbines.

https://www.ksb.com/en-gb/lc/D03A

Single-piece ball valves

MP-CI/MP-II

PN	16
DN	15 - 150
T [°C]	≥ -10 - ≤ +200

Description
Ball valve to DIN/EN with wafer-type body made of Kanigen-treated carbon steel (MP/CI) or stainless steel (MP/II), stainless steel ball, PTFE/graphite seat.

Applications
Irrigation and fire-fighting systems, domestic water supply, air-conditioning systems, cooling circuits, water supply systems.

m, p + AMTROBOX/AMTRONIC U

https://www.ksb.com/en-gb/lc/M77A

PROFIN VT1

PN	40
DN	8 - 50
T [°C]	≥ -20 - ≤ +150

Description
Ball valve to ANSI/ASME with threaded ends (BSP), single-piece body, reduced bore, solid ball, blowout-proof shaft, body made of stainless steel.

Applications
Spray irrigation systems, general irrigation systems, fire-fighting systems, air-conditioning systems, paint shops, snow-making systems, washing plants, water supply systems, mining, pressure boosting, chemical industry, process engineering, paper and pulp industry, domestic water supply, heating, ventilation and air-conditioning applications. For cleaning agents, condensate, cooling water, corrosive fluids, drinking water, fire-fighting water, lubricants, oil, river water, seawater, groundwater, service water, wash water and solvents.

m

https://www.ksb.com/en-gb/lc/P03A

Two-piece ball valves

ECOLINE BLT 150-300

Class	150 / 300
DN	15 - 300
T [°C]	≥ -10 - ≤ +200

Description
Ball valve to ANSI/ASME with flanged ends, two-piece body, full bore, floating ball, plastomer sealing (also in fire-safe design).

Applications
General industry, power stations, chemical industry, petrochemical industry and all related branches of industry, paper industry, food industry and pharmaceutical industry.

m, e, p

https://www.ksb.com/en-gb/lc/E48A

Not available for worldwide sale Actuator/Automation

PROFIN VT2L

PN	40
DN	8 - 80
T [°C]	≥ -20 - ≤ +150

Description
Ball valve to ANSI/ASME with threaded ends (BSP), two-piece body, full bore, solid ball, anti-static design, blowout-proof shaft, body made of stainless steel.

Applications
Spray irrigation systems, general irrigation systems, fire-fighting systems, air-conditioning systems, paint shops, snow-making systems, washing plants, water supply systems, mining, pressure boosting, chemical industry, process engineering, paper and pulp industry, domestic water supply, heating, ventilation and air-conditioning applications. For cleaning agents, condensate, cooling water, corrosive fluids, drinking water, fire-fighting water, lubricants, oil, river water, seawater, groundwater, service water, wash water and solvents.

m

https://www.ksb.com/en-gb/lc/P12A

Three-piece ball valves

ECOLINE BLC 1000

Class	1000 WOG
DN	8 - 100
T [°C]	≥ -10 - ≤ +200

Description
Ball valve to ANSI/ASME with threaded ends (NPT), butt weld or socket weld ends, three-piece body, full bore, floating ball. Plastomer sealing (also in fire-safe design).

Applications
General industry, power stations, chemical industry, petrochemical industry and all related branches of industry, paper industry, food industry and pharmaceutical industry.

m, p

https://www.ksb.com/en-gb/lc/E47A

PROFIN SI3

PN	16/40
DN	15 - 100
T [°C]	≥ -20 - ≤ +150

Description
Ball valve to ANSI/ASME with flanged ends, threaded ends (BSP) or long butt weld ends, three-piece body, full bore, solid ball, top flange to ISO 5211, anti-static design, blowout-proof shaft, spring-loaded shaft seal, body made of stainless steel.

Applications
Spray irrigation systems, general irrigation systems, fire-fighting systems, air-conditioning systems, paint shops, snow-making systems, washing plants, water supply systems, mining, pressure boosting, chemical industry and process engineering, paper and pulp industry, domestic water supply, heating, ventilation and air-conditioning systems. For cleaning agents, condensate, cooling water, corrosive fluids, drinking water, fire-fighting water, lubricants, oil, river water, seawater, groundwater, service water, wash water and solvents.

m, p

https://www.ksb.com/en-gb/lc/P14A

PROFIN VT3

PN	40
DN	8 - 100
T [°C]	≥ -20 - ≤ +150

Description
Ball valve to ANSI/ASME with flanged ends, threaded ends (BSP) or long butt weld ends, three-piece body, full bore, solid ball, blowout-proof shaft, body made of stainless steel.

Applications
Spray irrigation systems, general irrigation systems, fire-fighting systems, air-conditioning systems, paint shops, snow-making systems, washing plants, water supply systems, mining, pressure boosting, chemical industry and process engineering, paper and pulp industry, domestic water supply, heating, ventilation and air-conditioning systems. For cleaning agents, condensate, cooling water, corrosive fluids, drinking water, fire-fighting water, lubricants, oil, river water, seawater, groundwater, service water, wash water and solvents.

m

https://www.ksb.com/en-gb/lc/P13A

Soft-seated diaphragm valves to DIN/EN

SISTO-KB

PN	10
DN	15 - 200
T [°C]	≥ -20 - ≤ +140

Description
Diaphragm valve to DIN/EN with flanged ends, in straight-way pattern; shut-off and sealing to atmosphere by diaphragm; hydraulically favourable full bore body with coating or lining, position indicator with integrated stem protection. From DN 125 with threaded bush. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
Building services, industry, power stations; suitable for abrasive and aggressive products such as service water, waste water, acids, alkaline solutions, sludges and suspensions.

m, e, p

https://www.ksb.com/en-gb/lc/S47A

SISTO-16

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

Description
Diaphragm valve to DIN/EN with flanged ends or threaded socket ends, in straight-way pattern; shut-off and sealing to atmosphere by supported and confined diaphragm; body with coating or lining, position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
Building services, industry and power stations; suitable for drinking water, service water, air, oil, technical gases, fluids handled in the food and beverage industry, abrasive and aggressive products in chemical engineering and process engineering.

m, e, p

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

SISTO-16S

PN	16
DN	15 - 200
T [°C]	≥ -20 - ≤ +160

Description
Diaphragm valve to DIN/EN with flanged ends, short face-to-face length, in straight-way pattern; 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
Building services, industry and power stations; suitable for drinking water, service water, air, oil, technical gases, fluids handled in the food and beverage industry, abrasive and aggressive products in chemical engineering and process engineering.

m, e, p

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

SISTO-16RGAMaXX

PN	16
DN	15 - 80
T [°C]	≥ -10 - ≤ +90

Description
Diaphragm valve to DIN/EN with threaded socket ends, straight-way pattern, body made of stainless steel for drinking water installations to DIN 1988, DIN-DVGW-approved for water acc. to test W 270, in compliance with the latest German Environment Agency guideline; shut-off and sealing to atmosphere by confined and supported SISTOMaXX diaphragm; position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
Drinking water, particularly drinking water installations to DIN 1988, seawater, all service water qualities.

m

https://www.ksb.com/en-gb/lc/S41A

SISTO-16TWA

PN	16
DN	15 - 200
T [°C]	≥ -10 - ≤ +140

Description
Diaphragm valve to DIN/EN with flanged ends, straight-way pattern, for drinking water installations to DIN 1988, DIN-DVGW-approved for water acc. to test W 270, in compliance with the latest elastomers guideline of the German Environment Agency; shut-off and sealing to atmosphere by confined and supported SISTOMaXX diaphragm; position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
SISTO-16TWA (drinking water up to 90 °C): drinking water, particularly drinking water installations to DIN 1988, water containing chlorine, seawater, etc. SISTO-16HWA (hot water up to 140 °C): all service water qualities. SISTO-16DLU (compressed air up to 90 °C): compressed air with oil content, oils and technical gases.

m, e, p

https://www.ksb.com/en-gb/lc/S43A

Not available for worldwide sale Actuator/Automation

SISTO-20

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

Description
Diaphragm valve to DIN/EN with flanged ends, threaded socket ends or socket weld ends, in straight-way pattern; shut-off and sealing to atmosphere by supported and confined diaphragm; body with coating or lining, position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
Building services, industry and power stations; suitable for drinking water, service water, air, oil, technical gases, fluids handled in the food and beverage industry, abrasive and aggressive products in chemical engineering and process engineering.

m, e, p https://www.ksb.com/en-gb/lc/S44A

SISTO-C

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

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

Applications
Biotechnology, pharmaceutical industry, sterile processes, food and beverage industry.

m, p https://www.ksb.com/en-gb/lc/S46A

Diaphragm valves for nuclear applications

SISTO-20NA

PN	20
DN	8 - 150
T [°C]	≥ -20 - ≤ +100

Description
Diaphragm valve with butt weld ends, for nuclear applications, shut-off and sealing to atmosphere by supported and confined diaphragm. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
Cleaning systems, condensate and cooling water systems, waste water systems, auxiliary systems.

m, e, p https://www.ksb.com/en-gb/lc/S49A

SISTO-DrainNA

PN	16
DN	15 - 25
T [°C]	≥ -20 - ≤ +100

Description
Diaphragm valve with butt weld ends, for nuclear applications; shut-off and sealing to atmosphere by confined diaphragm. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications
Heating systems, air-conditioning systems, auxiliary systems.

m https://www.ksb.com/en-gb/lc/S33A

Feed water bypass valves

ZJSVM/RJSVM

PN	≤ 600
DN	100 - 800
T [°C]	≥ -10 - ≤ +450

Description
Feed water bypass valve to DIN/EN with butt weld ends, pressure seal design, billet-forged body, Z or T pattern, seat/disc interface made of wear and corrosion resistant Stellite, controlled by process fluid.
Applications
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/Z08A

Expansion and anti-vibration joints

ECOLINE GE1/GE2/GE3

PN	16
DN	15 - 300
T [°C]	≥ -10 - ≤ +105

Description
Expansion joint to DIN/EN with flanged or threaded ends, made of EPDM elastomer or NBR, flanges made of nickel-coated carbon steel.
Applications
Irrigation, domestic water supply, air-conditioning systems, cooling circuits, food and beverage industry, water treatment, water supply.

https://www.ksb.com/en-gb/lc/E55A

ECOLINE GE4

PN	16
DN	20 - 200
T [°C]	≥ -10 - ≤ +100

Description
Anti-vibration joint to DIN/EN, body made of EPDM, flanges to EN standards.
Applications
Irrigation, domestic water supply, air-conditioning systems, cooling circuits, food and beverage industry, water treatment, water supply.

https://www.ksb.com/en-gb/lc/E55A

Levers

CR/CM

T [°C] ≥ -20 - ≤ +80

Description
Two lever versions: flat shaft end or square shaft end to ISO 5211, made of cast iron. CR type series: locks in 10 positions (open, closed and 8 evenly spaced intermediate positions). CM type series: same as CR, with special coating.

Applications
Building services, water engineering, energy engineering and industry.

S/SR/SP

T [°C] ≥ -20 - ≤ +80

Description
Two lever versions: flat shaft end or square shaft end to ISO 5211, made of light metal alloy; S type series: locks in limit positions (open and closed), SR type series: locks in 9 positions (open, closed and 7 evenly spaced intermediate positions), SP type series: locks in any position.

Applications
Water engineering, energy engineering and industry

Manual gearboxes

MS

Output torque [Nm] 150-16000
Enclosure IP67
T [°C] ≥ -40 - ≤ +120

Description
Manual actuator for operating quarter-turn valves. MS range manual gearbox, irreversible worm gear, handwheel-operated.

Applications
Building services, general industrial applications, water and industrial processes in non-corrosive and non-saline environments.

https://www.ksb.com/en-gb/lc/M26A

MC

Output torque [Nm] 150-63000
Enclosure IP66/IP68
T [°C] ≥ -40 - ≤ +120

Description
Heavy-duty manual actuator for operating quarter-turn valves. MC range manual gearbox, irreversible worm gear, handwheel-operated. Optional: other actuation methods, limit switch boxes, etc.

Applications
Building services, industry and process engineering, water management, waste water management, energy, petroleum and natural gas, mining, dredgers and shipbuilding.

AMTROBOX

https://www.ksb.com/en-gb/lc/M26A

Electric actuators

QuarterTurn AQ, AQL / SQ

Quarter-turn actuator	AQ, AQL / SQ
Enclosure	IP68
Output torque [Nm]	≤ 1200
T [°C]	≥ -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/A35A

MultiTurn SA+GS / SAR+GS

Quarter-turn actuator	SA, SAR
Multi-turn actuator	100 - 400
Enclosure	IP68
Output torque [Nm]	≤ 18000
T [°C]	≥ -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/A35A

SISTO-LAE

Type	AUMA
Multi-turn actuator	
Enclosure	IP67
Output torque [Nm]	≤ 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]	≤ 55000
Enclosure	IP68
T [°C]	≥ -45 - ≤ +100

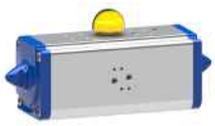
Description
Single-acting or double-acting hydraulic actuator (gas cartridge or spring) for mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 160 bar. Mounts on valves with square or flat shaft end. Force transmission via rack-and-pinion 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
Enclosure	IP68
T [°C]	≥ -50 - ≤ +150

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.

Applications
Water engineering, energy engineering and industry

AMTROBOX, AMTRONIC U, SMARTRONIC U

https://www.ksb.com/en-gb/lc/A59C

DYNACTAIR EVO

Output torque [Nm] at a control pressure of 6 bar	≤ 4000
Enclosure	IP68
T [°C]	≥ -50 - ≤ +150

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 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.

Applications
Water engineering, energy engineering and industry

AMTROBOX, AMTRONIC U, SMARTRONIC U

https://www.ksb.com/en-gb/lc/D09C

SISTO-LAD

Control air pressure [bar]	≤ 6
Closing force [N]	≤ 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.

Applications
Building services, industry, power stations; suitable for abrasive and aggressive products such as service water, waste water, acids, alkaline solutions, sludges and suspensions.

https://www.ksb.com/en-gb/lc/S64A

SISTO-LAP

Control air pressure [bar]	5,5 - 10
Closing force [N]	≤ 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.

Applications
Building services, industry, power stations, food and beverage industries, and chemical industry. The pneumatic actuators can be used in potentially explosive atmospheres.

https://www.ksb.com/en-gb/lc/S63A

SISTO-C LAP

Control air pressure [bar]	5,5 - 7
Closing force [N]	≤ 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.

MIL 37-38

Permissible pressure [psi]	65
Stroke [inch]	≤ 4
NPS	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]	100
Stroke [inch]	< 12
NPS	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

Actuator accessories

EMO

Enclosure	IP65
T [°C]	≥ -20 - ≤ +80

Description
Emergency manual override using a declutchable manual gearbox with handwheel for mounting on ACTAIR EVO double-acting pneumatic actuators, DYNACTAIR EVO single-acting pneumatic actuators and hydraulic actuators. The manual override is fitted between the valve and the actuator. The manual override has priority over the pneumatic or hydraulic actuator and is locked either in clutched or declutched position using the locking device.

Applications
Water engineering, energy engineering and industry

https://www.ksb.com/en-gb/lc/R39A

Monitoring

AMTROBOX

Enclosure	IP67
T [°C]	≥ -20 - ≤ +80

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.

Applications
Water engineering, building services and energy engineering

https://www.ksb.com/en-gb/lc/A34A

AMTROBOX Ex ia

Enclosure	IP67
T [°C]	≥ -10 - ≤ +50

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.

Applications
Water engineering, building services and energy engineering

https://www.ksb.com/en-gb/lc/A34A

AMTROBOX ATEX Zone 22

Enclosure	IP67
T [°C]	≥ -10 - ≤ +60

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).

Applications
Water engineering, building services and energy engineering

https://www.ksb.com/en-gb/lc/A34A

AMTROBOX M

Enclosure	IP65
T [°C]	≥ -20 - ≤ +80

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 series of quarter-turn levers (R1020) and manual gearbox types MA 12 and MA 25 (R1021).

Applications
Water engineering, building services and energy engineering

https://www.ksb.com/en-gb/lc/A46A

AMTROBOX R

Enclosure	IP68
T [°C]	≥ -45 - ≤ +80

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.

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

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

AMTROBOX R Ex ia

Enclosure	IP68
T [°C]	≥ -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

ON/OFF valve controllers

AMTRONIC U

Enclosure	IP67
Control air pressure [bar]	3 - 8
T [°C]	≥ -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

AMTRONIC U Ex ia

Enclosure	IP67
Control air pressure [bar]	3 - 8
T [°C]	≥ -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. The intrinsically safe AMTRONIC U version Ex ia can be operated in potentially explosive atmospheres. It complies with Directive 2014/34/EU and is marked in accordance with CE 0081 Ex II 1 G. Type of protection Ex ia IIC T6 Ga in accordance with EN 60079-0 and EN 60079-11.

Applications
Water engineering, energy engineering and industry

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

Positioners

SMARTRONIC U MA

Enclosure	IP67
Control air pressure [bar]	2 - 7
T [°C]	≥ -20 - ≤ +80

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.

Applications
Water engineering, energy engineering and industry

https://www.ksb.com/en-gb/lc/S05B

SMARTRONIC U AS-i

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

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 compressed air supply, or on any type of quarter-turn actuator with VDI/VDE 3845 interface and linear actuators with NAMUR interface.

Applications
Water engineering, energy engineering and industry

https://www.ksb.com/en-gb/lc/S03B

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

Legal information/Copyright

Product Portfolio Valves ı Actuators ı Automation

KSB SE & Co. KGaA
Johann-Klein-Straße 9 • 67227 Frankenthal (Germany)
Tel. +49 6233 86-0
www.ksb.com