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

KSB

Product Portfolio 2018

Valves I Actuators I Automation

Type Series Index

Our tradition:
Competence since 1871

We have supplied generations of customers worldwide with pumps, valves, automation products and services. A company with that kind of experience knows that success is a process based on a stream of innovations. A process made possible by a close working alliance between developer and user, between production and practice.

Partners achieve more together.
We do everything possible to ensure that our customers always have access to the ideal product and system solution. KSB is a loyal partner. And a strong one:

- Over 140 years' experience
- Present in more than 100 countries
- More than 16,000 employees
- More than 170 service centres worldwide
- Approximately 3,000 service specialists

Single-source supplier:
your partner for pumps, valves and service

We assist our customers right through the product life cycle

A comprehensive product range, short response times and tailored service and spare parts solutions – no other competitor offers a comparable range of products and services. In all phases of the product life cycle, we are on hand to ensure that our customers secure long-term value from their systems.

We offer our customers a variety of services and spare parts solutions around pumps, valves, and other rotating equipment – also for non-KSB products:

- Technical consultancy
- Installation and commissioning
- Services provided on-site and in our service centres
- Inspection and maintenance
- Maintenance inspection management
- Framework agreements such as TPM® Total Pump Management
- Efficiency analysis with SES System Efficiency Service or Pump Operation Check
- Reverse engineering
- Inventory management
- Retrofitting as an alternative to buying a new product
- Spare parts in manufacturer's quality
- On-site training sessions
- Refurbishment and decommissioning

Ready wherever you are:
with a global service network and a 24-hour emergency service.

Our mission:
Certified quality assurance

First-class products and excellent service take top priority at KSB. To maintain this level of excellence, we have developed a modern quality management system with globally applicable guidelines. It is based on the Business Excellence model of the European Foundation for Quality Management, which already ensures improved quality management Europewide.

Our guidelines define uniform quality for all KSB locations and have helped us to optimise our manufacturing processes. The results are shorter delivery times and global availability of our products. These guidelines govern the way we act so comprehensively that even the competence of our consulting and the good value for money we offer are clearly stipulated. Like the 'Made in Germany' quality seal, we introduced internal certification as a sign of the highest quality: 'Made by KSB'.

Our five key goals:

- **Maximum customer satisfaction:** We do everything to fulfil our customers' wishes on time and in full.
- **Fostering quality awareness:** We put our quality commitment into daily practice – from executives to employees, whose qualifications and competence we foster through continuing training.
- **Prevention rather than cure:** We systematically analyse errors and prevent the causes.
- **Improvement in quality:** We continually optimise our processes in order to work more efficiently.
- **Involvement of suppliers:** We attach great importance to working together fairly and openly to achieve our shared goals.

THE GLOBAL COMPACT
WE SUPPORT

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

Industry 4.0: we have experience with the future

Digital networking of production systems is one of the key challenges ahead. An expert in engineering with long-standing experience in developing Industry 4.0 solutions, KSB is your ideal partner to achieve:

- Resource efficiency and optimised use of materials
- Availability and operating reliability
- Flexibility through short-term reconfigurability
- Reduction of time to market

Increase your system's productivity already today with KSB's smart products and services: Use our intelligent technologies designed to communicate, such as PumpDrive and PumpMeter, to lay a foundation for your smart factory. Find out more about our future-driven solutions at **www.ksb.com/industry40**

› **Our technology. Your success.**
Pumps • Valves • Service

KSB

KSB Trademarks

Apart from the KSB umbrella brand, the following brand names identify quality products and services by the KSB Group:

amri

Butterfly valves

Under the AMRI brand, KSB sells its butterfly valves. They are used in building services, industry, water engineering and power generation applications. AMRI products include pneumatic, hydraulic and electric valve actuators as well as control systems.

SISTO®

Diaphragm valves

Under the SISTO brand, KSB sells its diaphragm valves. They perform shut-off duties in building services, industrial, water management and power generation applications. Under this brand name, KSB offers special valves for sterile processes including biotech applications.

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 from page 25 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.

Valves

Design/Application	Type series	Page	Automation	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Soft-seated globe valves to DIN/EN	BOA-SuperCompact	25	■		■		■		
	BOA-Compact	25	■		■		■		
	BOA-Compact EKB	25	■		■		■		
	BOA-W	25	■	■	■		■		
Bellows-type globe valves to DIN/EN	BOA-H	26			■	■	■		
	BOA-H/HE/HV/HEV	26	■		■	■	■		
	NORI 40 ZXLBV/ZXSBV	26			■	■	■		
	NORI 40 ZXLB/ZXSB	26	■		■	■	■		
	NORI 40 ZYLB/ZYSB	26			■	■	■		
	BOACHEM-ZXAB	27	■		■	■	■		
Bellows-type globe valves to ANSI/ASME	ECOLINE GLB 150-600	27	■		■	■			■
	ECOLINE GLB 800	27	■		■	■			■
Globe valves to DIN/EN with gland packing	NORI 40 ZXL/ZXS	27			■	■	■		
	NORI 40 ZXLF/ZXSF	28	■		■	■	■		
	NORI 160 ZXL/ZXS	28			■	■			
	NORI 160 ZXLF/ZXSF	28	■		■	■			
	NORI 320 ZXSV	28	■		■	■			
	NORI 500 ZXSV	28	■		■	■			
	BOACHEM-ZXA	29			■		■		
	ECOLINE VA 16	29			■		■		
Globe valves to ANSI/ASME with gland packing	ECOLINE GLC 150-600	29	■		■	■			
	ECOLINE GLF 150-600	29	■		■	■			
	ECOLINE GLF 800-2500	29	■		■	■			
	ECOLINE GLV 150-300	30	■		■	■			
	SICCA 150-600 GLC	30	■		■	■			
	SICCA 900-2500 GLC	30	■		■	■			
	SICCA 800-4500 GLF	30	■		■	■			
	WADA GL 150	30	■		■				
Globe valves for nuclear applications	NUCA/-A/-ES, Types I, II, IV	31	■			■			
	ZXNB	31	■			■			
	ZXNVB	31				■			
	ZYNB/ZYN	31	■			■			
Automated globe valves to DIN/EN	BOA-H Mat E	32	■		■	■	■		
	BOA-H Mat P	32	■		■	■	■		
Control valves to DIN/EN	BOA-CVE C/CS/W/IMS/EKB	32	■	■	■		■		
	BOA-CVE H	32	■		■	■	■		
	BOA-CVP H	33	■		■	■	■		
Balancing and shut-off valves to DIN/EN	BOA-Control/BOA-Control IMS	33	■		■		■		
	BOA-Control SAR	33			■		■		
Level control valves to DIN/EN	CONDA-VLC	33		■					
Pressure reducing valves to DIN/EN	CONDA-VRC	34		■					
Pressure sustaining valves to DIN/EN	CONDA-VSM	34		■					
Air valves to DIN/EN	BOAVENT-AVF	34		■					
	BOAVENT-SIF	34		■					
	BOAVENT-SVA	35		■					
	BOAVENT-SVF	35		■					
Vent valves for nuclear applications	SISTO-VentNA	35				■	■		
	SISTO-KRVNA	35				■			

Design/Application	Type series	Page	Automation	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Gate valves to DIN/EN	COBRA-SGP/SGO/SGF	36		■	■		■		
	COBRA-SMP	36		■	■		■		
	ECOLINE SP/SO	36		■	■		■		
	ECOLINE GT 40	36	■		■				
	STAAL 40 AKD/AKDS	36	■		■	■			
	STAAL 100 AKD/AKDS	37	■		■	■			
	AKG-A/AKGS-A	37	■		■	■			
	ZTS	37	■		■	■			
Gate valves to ANSI/ASME	ECOLINE GTB 800	37	■		■	■			■
	ECOLINE GTC 150-600	37	■		■	■			
	ECOLINE GTF 150-600	38	■		■	■			
	ECOLINE GTF 800-2500	38	■		■	■			
	ECOLINE GTV 150-300	38	■		■	■			
	SICCA 150-600 GTC	38	■		■	■			
	SICCA 900-3600 GTC	38	■		■	■			
	SICCA 800-1500 GTF	39	■		■	■			
	WADA GT 150	39	■		■				
Gate valves for nuclear applications	ZTN	39	■			■			
Body pressure relief valve	UGS	39			■	■			
Knife gate valves to DIN/EN	HERA-BD	40	■	■	■		■	■	
Knife gate valves to ANSI/ASME	HERA-BDS	40	■	■	■			■	
	HERA-BHT	40	■	■	■			■	
	HERA-SH	40	■	■	■			■	
Lift check valves to DIN/EN	BOA-RPL	41		■			■		
	BOA-RFV	41		■	■		■		
	BOA-RVK	41			■	■	■		
	BOA-R	41			■	■	■		
	NORI 40 RXL/RXS	41			■	■	■		
	NORI 160 RXL/RXS	42			■	■			
	RGS	42			■	■			
	BOACHEM-RXA	42			■		■		
Lift check valves to ANSI/ASME	ECOLINE PTF 150-600	42			■	■			
	ECOLINE PTF 800-2500	42			■	■			
	SICCA 800-4500 PCF	43			■	■			
	WADA SC 150	43			■				
Lift check valves for nuclear applications	NUCA/-A/-ES, Type V	43				■			
	RJN	43				■			
	RYN	43	■			■			
Swing check valves to DIN/EN	COBRA-SCBS	44		■	■		■		
	ECOLINE WT/WTI	44			■		■		
	STAAL 40 AKK/AKKS	44			■	■			
	STAAL 100 AKK/AKKS	44			■	■			
	AKR/AKRS	44			■	■			
	ZRS	45			■	■			
	SISTO-RSK/RSKS	45		■	■	■		■	
	SERIE 2000	45		■	■		■		
Swing check valves to ANSI/ASME	ECOLINE SCC 150-600	45			■	■			
	ECOLINE SCF 150-600	45			■	■			
	ECOLINE SCF 800-2500	46			■	■			
	ECOLINE SCV 150-300	46			■	■			
	SICCA 150-600 SCC	46			■	■			
	SICCA 900-3600 SCC	46			■	■			
	WADA SC 150	46			■				
Swing check valves for nuclear applications	SISTO-RSKNA	47				■			
	ZRN	47				■			
Tilting disc check valves to DIN/EN	COBRA-TDC01/03	47		■	■	■			

Design/Application	Type series	Page	Automation	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Strainers to DIN/EN	BOA-S	47			■	■	■		
	NORI 40 FSL/FSS	48			■	■	■		
	BOACHEM-FSA	48			■		■		
Strainers to ANSI/ASME	ECOLINE FYC 150-600	48			■	■			
	ECOLINE FYF 800	48			■	■			
Centred-disc butterfly valves	BOAX-CBV13	49		■	■	■	■		
	BOAX-S/SF	49	■				■		
	BOAX-S/SF Gaz	49					■		
	BOAX-B	49	■	■	■		■		
	BOAX-B Gaz	49		■	■		■		
	BOAX-B APSAD	50			■		■		
	BOAX-B DVGW	50		■	■		■		
	BOAX-B FM	50			■		■		
	ISORIA 10/16	50	■	■	■	■		■	
	ISORIA 20/25	50	■	■	■	■	■		
	ISORIA 20 UL	51	■		■				
	MAMMOUTH	51	■	■	■	■			
	KE	51	■	■	■				
Double-offset butterfly valves	APORIS	51		■	■	■			
	DANAÏS 150	52	■	■	■	■	■	■	
	DANAÏS MTII	52	■		■	■		■	
	DANAÏS TBTII	52	■		■				
Triple-offset butterfly valves	TRIODIS 150	52	■		■	■			
	TRIODIS 300	53	■		■	■			
	TRIODIS 600	53	■		■	■			
Butterfly valves for nuclear applications	CLOSSIA	53	■			■			
Combined butterfly/check valves	DUALIS	53		■					
Single-piece ball valves	MP-CI/MP-II	54	■	■					
	PROFIN-VT1	54		■	■		■		
Two-piece ball valves	ECOLINE BLT 150-300	54	■		■	■			■
	PROFIN-VT2L	54		■	■		■		
Three-piece ball valves	ECOLINE BLC 1000	55	■		■	■			■
	PROFIN-SI3FIT/-SI3IT/-SI3LIT	55	■	■	■		■		
	PROFIN-VT3/-VT3L/-VT3F/-VT33L	55		■	■		■		
Soft-seated diaphragm valves to DIN/EN	SISTO-KB	55	■	■	■	■		■	
	SISTO-KBS	56	■	■	■	■		■	
	SISTO-10	56	■	■	■	■			
	SISTO-10M	56	■	■	■	■	■		
	SISTO-16	56	■	■	■	■			
	SISTO-16S	56	■	■	■	■			
	SISTO-16RGA	57		■			■		
	SISTO-16TWA/HWA/DLU	57	■	■			■		
	SISTO-20	57	■		■	■			■
	SISTO-C	57	■	■					■
Diaphragm valves for nuclear applications	SISTO-20NA	58	■			■			
	SISTO-DrainNA	58				■			
Feed water bypass valves	ZJSVM/RJSVM	58	■		■	■			
Expansion and anti-vibration joints	ECOLINE GE1/GE2/GE3	58			■		■		
	ECOLINE GE4	59			■		■		

Actuators

Design/Application	Type series	Page	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Levers	CR/CM	60	■	■	■	■		
	S/SR/SP	60	■	■	■	■		
Manual gearbox	MN	60	■	■		■		
	MR	60	■	■	■	■	■	
Electric actuators	ACTELEC (AUMA)	61	■	■	■	■		
	ACTELEC (BERNARD CONTROLS)	61	■	■	■	■		
	SISTO-LAE	61	■	■	■	■	■	
Hydraulic actuators	HQ	61	■	■	■			
Pneumatic actuators	ACTAIR NG	62	■	■	■			
	DYNACTAIR NG	62	■	■	■			
	SISTO-LAD	62	■	■	■	■	■	
	SISTO-LAP	62	■	■	■	■	■	
	SISTO-C LAP	63						■
Control accessories	RMD	63	■	■	■	■		

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

Automation

Design/Application	Type series	Page	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Monitoring	AMTROBOX	64	■	■	■			
	AMTROBOX EEx ia	64	■	■	■			
	AMTROBOX ATEX Zone 22	64	■	■	■			
	AMTROBOX F	64	■		■	■		
	AMTROBOX M	64	■	■	■	■		
	AMTROBOX R	65	■	■	■			
	AMTROBOX R EEx ia	65	■	■	■			
	AMTROBOX R Ex d	65	■	■	■			
ON/OFF valve controllers	AMTRONIC	65	■	■	■			
Positioners	SMARTRONIC MA	66	■	■	■			
	SMARTRONIC AS-i	66	■	■	■			
Intelligent positioners	SMARTRONIC PC	66	■	■	■			

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	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 VA 16	Globe valves to ANSI/ASME with gland packing	SICCA 150-600 GLC	SICCA 900-2500 GLC	SICCA 800-4500 GLF	ECOLINE GLC 150-600	ECOLINE GLF 150-600	ECOLINE GLF 800-2500	ECOLINE GLV 150-300	WADA GL 150				
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		■	■	■																				■												
Highly 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/-A/-ES, Types I, II, IV	ZYNB/ZYN	ZXNB	ZXNVB	Automated globe valves to DIN/EN	BOA-H Mat E	BOA-H Mat P	Control valves to DIN/EN	BOA-CVE C/CS/W/IMS/EKB	BOA-CVE H	BOA-CVP H	Balancing and shut-off valves to DIN/EN	BOA-Control /BOA-Control IMS	BOA-Control SAR	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
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/SGF	COBRA-SMP	ECOLINE SP/SO	ECOLINE GT 40	STAAL 40 AKD/AKDS	STAAL 100 AKD/AKDS	AKG-A/AKGS-A	ZTS	Gate valves to ANSI/ASME	ECOLINE GTB 800	ECOLINE GTC 150-600	ECOLINE GTF 150-600	ECOLINE GTF 800-2500	ECOLINE GTV 150-300	SICCA 150-600 GTC	SICCA 900-3600 GTC	SICCA 800-1500 GTF	WADA GT 150	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	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		■	■	■									■			■		■			■									■	■	■			
Highly 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 800-2500	SICCA 800-4500 PCF	WADA SC 150	Lift check valves for nuclear applications	NUCA/-A/-ES, Type V	RJN	RYN	Swing check valves to DIN/EN	COBRA-SCBS	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 800-2500	ECOLINE SCV 150-300	SICCA 150-600 SCC	SICCA 900-3600 SCC	WADA SC 150	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-S/SF Gaz	BOAX-B	BOAX-B APSAD	BOAX-B DVGW	BOAX-B FM	BOAX-B Gaz	ISORIA 10/16	ISORIA 20/25	ISORIA 20 UL	MAMMOUTH	KE	Double-offset butterfly valves	APORIS	DANAÏS 150	DANAÏS MTII	DANAÏS TBTII	Triple-offset butterfly valves	TRIODIS 150	TRIODIS 300	TRIODIS 600	Butterfly valves for nuclear applications	CLOSSIA	Combined butterfly/check valves	DUALIS			
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

	Single-piece ball valves	MP-CI/MP-II	PROFIN-VT1	Two-piece ball valves	ECOLINE BLT 150-300	PROFIN-VT2L	Three-piece ball valves	ECOLINE BLC 1000	PROFIN-SI3FIT	PROFIN-SI3IT	PROFIN-SI3LIT	PROFIN-VT3	PROFIN-VT3L	PROFIN-VT3F	PROFIN-VT33L	Soft-seated diaphragm valves to DIN/EN	SISTO-KB	SISTO-KBS	SISTO-10	SISTO-10M	SISTO-16	SISTO-16S	SISTO-16RGA	SISTO-16TWA/HWA/DLU	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		
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	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 VA 16	Globe valves to ANSI/ASME with gland packing	SICCA 150-600 GLC	SICCA 900-2500 GLC	SICCA 800-4500 GLF	ECOLINE GLC 150-600	ECOLINE GLF 150-600	ECOLINE GLF 800-2500	ECOLINE GLV 150-300	WADA GL 150			
Spray irrigation																	■	■	■	■	■	■													
Mining																																			
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							■	■	■	■	■						■	■	■	■	■	■													
Sewage treatment plants																																			
Air-conditioning systems		■	■	■			■																	■											
Condensate transport							■	■	■	■	■	■					■	■																	
Fossil-fuelled power stations																	■	■	■	■	■	■				■	■	■	■	■	■	■	■			
Cooling circuits				■																				■											
Paint shops							■	■																											
Food and beverages industries												■		■	■								■												
Seawater desalination/reverse osmosis																																			
Mixing																																			
Paper and pulp 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/-A/-ES, Types I, II, IV	ZYNB/ZYN	ZXNB	ZXNVB	Automated globe valves to DIN/EN	BOA-H Mat E	BOA-H Mat P	Control valves to DIN/EN	BOA-CVE C/CS/W/IMS/EKB	BOA-CVE H	BOA-CVP H	Balancing and shut-off valves to DIN/EN	BOA-Control /BOA-Control IMS	BOA-Control SAR	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
Spray irrigation																												
Mining																												
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 beverages industries																												
Seawater desalination/reverse osmosis																												
Mixing																												
Paper and pulp 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/SGF	COBRA-SMP	ECOLINE SP/SO	ECOLINE GT 40	STAAL 40 AKD/AKDS	STAAL 100 AKD/AKDS	AKG-A/AKGS-A	ZTS	Gate valves to ANSI/ASME	ECOLINE GTB 800	ECOLINE GTC 150-600	ECOLINE GTF 150-600	ECOLINE GTF 800-2500	ECOLINE GTV 150-300	SICCA 150-600 GTC	SICCA 900-3600 GTC	SICCA 800-1500 GTF	WADA GT 150	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	BOA-RFV	BOA-RVK	BOA-R	NORI 40 RXL/RXS	NORI 160 RXL/RXS
Spray irrigation																																			
Mining					■	■	■	■																	■									■	■
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					■	■	■	■	■																				■					■	■
Sewage treatment plants																							■			■	■								
Air-conditioning systems		■	■	■									■																	■			■		
Condensate transport					■	■						■	■	■	■	■	■													■			■	■	
Fossil-fuelled power stations						■	■	■	■							■	■												■					■	■
Cooling circuits		■	■	■									■																	■					
Paint shops																																			
Food and beverages industries											■																								
Seawater desalination/reverse osmosis																																			
Mixing																																			
Paper and pulp 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					■	■	■	■	■		■																	■					■	■	■

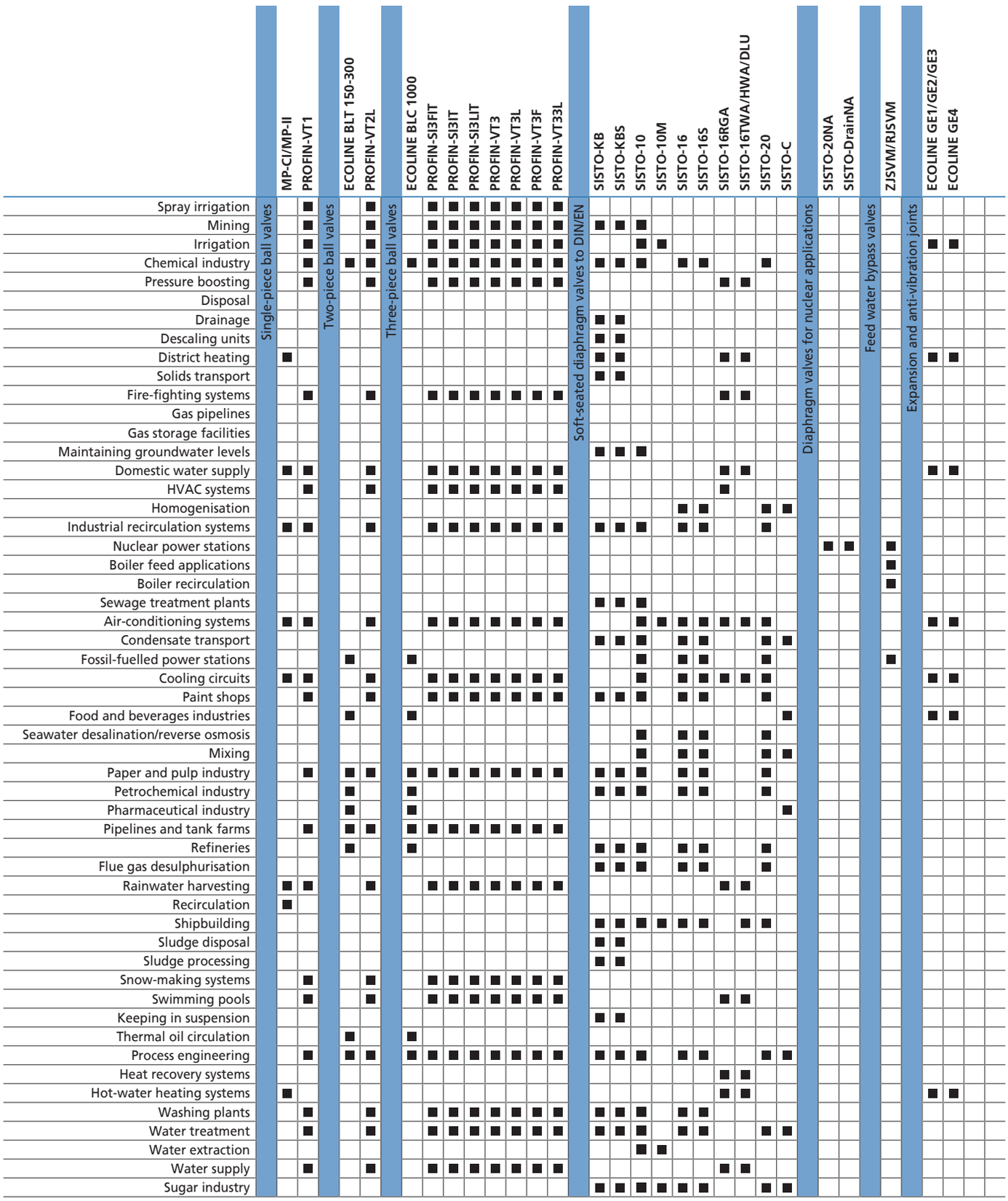
Applications

	Lift check valves to DIN/EN	RGS	BOACHEM-RXA	Lift check valves to ANSI/ASME	ECOLINE PTF 150-600	ECOLINE PTF 800-2500	SICCA 800-4500 PCF	WADA SC 150	Lift check valves for nuclear applications	NUCA/-A/-ES, Type V	RJN	RYN	Swing check valves to DIN/EN	COBRA-SCBS	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 800-2500	ECOLINE SCV 150-300	SICCA 150-600 SCC	SICCA 900-3600 SCC	WADA SC 150	Swing check valves for nuclear applications	SISTO-RSKNA	ZRN	Tilting disc check valves to DIN/EN	COBRA-TDC01/03		
Spray irrigation																																				
Mining		■					■									■	■	■										■								
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 beverages industries																																				
Seawater desalination/reverse osmosis					■									■						■	■													■		
Mixing																																				
Paper and pulp 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-S/SF Gaz	BOAX-B	BOAX-B APSAD	BOAX-B DVGW	BOAX-B FM	BOAX-B Gaz	ISORIA 10/16	ISORIA 20/25	ISORIA 20 UL	MAMMOUTH	KE	Double-offset butterfly valves	APORIS	DANAÏS 150	DANAÏS MTII	DANAÏS TBTII	Triple-offset butterfly valves	TRIODIS 150	TRIODIS 300	TRIODIS 600	Butterfly valves for nuclear applications	CLOSSIA	Combined butterfly/check valves	DUALIS
Spray irrigation										■		■		■			■																	
Mining		■	■														■							■	■			■	■	■				
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 beverages industries				■													■							■										
Seawater desalination/reverse osmosis																	■	■		■	■		■											
Mixing																	■																	
Paper and pulp 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



Soft-seated globe valves to DIN/EN

BOA-SuperCompact

PN	6/10/16
DN	20 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +120

Description:
Globe valve to DIN/EN with wafer-type body, super-compact DN face-to-face length to EN 558/94, slanted seat, bonnetless; with flange alignment holes for centring, dead-end service and downstream dismantling; 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 cast iron. Other fluids on request.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000312

BOA-Compact

PN	6/16
DN	15 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +120

Description:
Globe valve to DIN/EN with flanged ends, short face-to-face length to EN 558/14, slanted seat, bonnetless, 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.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000310

BOA-Compact EKB

PN	10/16
DN	15 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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, bonnetless, EPDM-encapsulated throttling plug, 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.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000311

BOA-W

PN	6/16
DN	15 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +120

Description:
Globe valve to DIN/EN with flanged ends, standard face-to-face length to EN 558/1, slanted seat, bonnetless, 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.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000309

Bellows-type globe valves to DIN/EN

BOA-H

PN	16/25
DN	15 - 350
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +350

Description:
Bellows-type globe valve to DIN/EN with flanged ends, with shut-off valve 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

http://shop.ksb.com/catalog/k0/en/product/ES000328

BOA-H/HE/HV/HEV

PN	25/40
DN	10 - 350
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +450

Description:
Bellows-type globe valve to DIN/EN with flanged, butt weld or socket weld ends, with shut-off valve disc or throttling plug, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

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

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000329

NORI 40 ZXLBV/ZXSBV

PN	25/40
DN	10 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +450

Description:
Bellows-type globe valve to DIN/EN with flanged, butt weld or socket weld ends, tapered shut-off valve 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:
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

http://shop.ksb.com/catalog/k0/en/product/ES000334

NORI 40 ZXLB/ZXSB

PN	25/40
DN	10 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +450

Description:
Bellows-type globe valve to DIN/EN with flanged, butt weld or socket weld ends, tapered shut-off valve 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:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000332

NORI 40 ZYLB/ZYSB

PN	25/40
DN	15 - 300
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +450

Description:
Bellows-type globe valve to DIN/EN with flanged or butt weld ends, Y-valve, replaceable throttling plug (up to DN 100) or shut-off valve 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:
In 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

http://shop.ksb.com/catalog/k0/en/product/ES000521

BOACHEM-ZXAB

PN	10 - 40
DN	15 - 400
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 beverages industries, for aggressive fluids. Other fluids on request.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000337

Bellows-type globe valves to ANSI/ASME

ECOLINE GLB 150-600

Class	150 - 600
NPS [inch]	2 - 12
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +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 industry; for thermal oil, steam, toxic and volatile fluids. Other applications on request.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000901

ECOLINE GLB 800

Class	150 - 800
NPS [inch]	½ - 2
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +427

Description:
Globe valve to ANSI/ASME, with threaded sockets (NPT) or socket weld ends (SW), forged 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 industry; for thermal oil, steam, toxic and volatile fluids. Other applications on request.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000902

Globe valves to DIN/EN with gland packing

NORI 40 ZXL/ZXS

PN	25/40
DN	10 - 400
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +450

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

http://shop.ksb.com/catalog/k0/en/product/ES000339

NORI 40 ZXLF/ZXSF

PN	25/40
DN	10 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +450

Description:
Globe valve to DIN/EN with flanged, butt weld or socket weld ends, with gland packing, with shut-off valve 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:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000341

NORI 160 ZXL/ZXS

PN	63 - 160
DN	10 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +550

Description:
Globe valve to DIN/EN with flanged, butt weld or socket weld ends, with gland packing, with shut-off valve disc or throttling plug, rotating stem, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.
Applications:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

m

http://shop.ksb.com/catalog/k0/en/product/ES000343

NORI 160 ZXLF/ZXSF

PN	63 - 160
DN	10 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +550

Description:
Globe valve to DIN/EN with flanged, butt weld or socket weld ends, with gland packing, with shut-off valve 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:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000345

NORI 320 ZXSV

PN	250 - 320
DN	10 - 50
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +580

Description:
Globe valve to DIN/EN with flanged, butt weld or socket weld ends, gland packing, throttling plug, non-rotating stem, bayonet-type body/yoke joint, integrated position indicator, seat/disc interface made of Stellite.
Applications:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000347

NORI 500 ZXSV

PN	250 - 500
DN	10 - 65
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 joint, integrated position indicator, seat/disc interface made of Stellite.
Applications:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000350

BOACHEM-ZXA

PN	10 - 40
DN	15 - 400
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +400

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

m

http://shop.ksb.com/catalog/k0/en/product/ES000354

ECOLINE VA 16

PN	16
DN	15 - 250
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +300

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

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000673

Globe valves to ANSI/ASME with gland packing

ECOLINE GLC 150-600

Class	150 - 600
NPS [inch]	2 - 12
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +816

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 applications on request.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000775

ECOLINE GLF 150-600

Class	150 - 600
NPS [inch]	½ - 2
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +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 applications, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000426

ECOLINE GLF 800-2500

Class	800 - 2500
NPS [inch]	½ - 2
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +538

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 (Class 800) or welded bonnet (Class 1500 and 2500), outside screw and yoke, 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; for water, steam, gas, oil and other non-aggressive fluids.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000796

ECOLINE GLV 150-300

Class	150 - 300
NPS [inch]	½ - 12
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +816

Description:
Globe valve to ANSI/ASME with flanged ends, cast steel A351 CF8/CF8M, Trim 2 (304/304) and Trim 10 (316/316) for Class 150/300, with bolted bonnet, outside screw and yoke, integral seat, graphite gland packing, stainless steel/graphite gaskets.
Applications:
Fine chemicals, food industry, general industry. For water, steam, gas and other fluids. Other applications on request.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000584

SICCA 150-600 GLC

Class	150 - 600
NPS [inch]	2 - 10
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +593

Description:
Globe valve to ANSI/ASME with flanged or butt weld ends, bolted bonnet, outside screw and yoke. Rotating, rising stem, seat/disc interface made of 13 % chrome steel, Stellite hard-faced; 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 applications on request.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000484

SICCA 900-2500 GLC

Class	900 - 2500
NPS [inch]	2 - 8
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +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 applications on request.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000485

SICCA 800-4500 GLF

Class	800 - 4500
NPS [inch]	¼ - 2
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +816

Description:
Globe valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, bolted bonnet (Class 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 gasket and gland packing. Available in carbon steel and alloy steel.
Applications:
Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other applications on request.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000480

WADA GL 150

Class	150
NPS [inch]	½ - 12
$T_{min.}$ [°C]	≥ -196
$T_{max.}$ [°C]	≤ +100

Description:
Globe valve to ANSI/ASME with flanged, butt weld or socket weld ends, made of cast steel A351 CF3M/CF8/CF8M, bolted bonnet, outside screw and yoke, Stellite hard-faced valve disc and back seat, with graphite or PTFE gland packing, stainless steel/graphite gaskets.
Applications:
Natural gas liquefaction and other liquefied gases.

e, m, p, h

http://shop.ksb.com/catalog/k0/en/product/ES000901

Globe valves for nuclear applications

NUCA/-A/-ES, Types I, II, IV

PN	≤ 320
DN	10 - 50
$T_{min.}$ [°C]	≥ -29
$T_{max.}$ [°C]	≤ +365

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

e, m, p http://shop.ksb.com/catalog/k0/en/product/ES000452

ZXNB

PN	≤ 210
DN	65 - 300
$T_{min.}$ [°C]	≥ -29
$T_{max.}$ [°C]	≤ +365

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

e, m, p http://shop.ksb.com/catalog/k0/en/product/ES000458

ZXNVB

PN	≤ 210
DN	4 - 25
$T_{min.}$ [°C]	≥ -29
$T_{max.}$ [°C]	≤ +365

Description:
Globe valve for nuclear applications, with butt weld or socket weld ends, 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 http://shop.ksb.com/catalog/k0/en/product/ES000457

ZYNB/ZYN

PN	≤ 62
DN	300 - 400
$T_{min.}$ [°C]	≥ -29
$T_{max.}$ [°C]	≤ +365

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

e http://shop.ksb.com/catalog/k0/en/product/ES000331

Automated globe valves to DIN/EN

BOA-H Mat E

PN	16/25
DN	20 - 150
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +350

Description:
Automated globe valve to DIN/EN with flanged ends, with electric actuators and 3-point actuation, actuating forces from 2000 N to 14,000 N, stem sealed by maintenance-free PTFE V-packing (up to 250 °C) or graphite gland packing (up to 350 °C).

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

e http://shop.ksb.com/catalog/k0/en/product/ES000801

BOA-H Mat P

PN	16/25
DN	20 - 150
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +350

Description:
Automated globe valve to DIN/EN with flanged ends, with pneumatic actuators in spring-to-open or spring-to-close design on option, actuating forces from 1500 N to 26,000 N, stem sealed by maintenance-free PTFE V-packing (up to 250 °C) or graphite gland packing (up to 350 °C).

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

p http://shop.ksb.com/catalog/k0/en/product/ES000885

Control valves to DIN/EN

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

PN	6/10/16
DN	15 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +120

Description:
Control valve to DIN/EN based on standard type series BOA-Compact, BOA-SuperCompact, BOA-W, BOA-Compact EKB and BOA-Control IMS, bonnetless pressure-retaining body, soft-seated. Leakage rate selectable from 0.05 % to drop-tight at Kvs values between 6.3 and 700 m³/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, control 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. Venting 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 http://shop.ksb.com/catalog/k0/en/product/ES000326

BOA-CVE H

PN	16/25/40
DN	15 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 m³/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 http://shop.ksb.com/catalog/k0/en/product/ES000772

BOA-CVP H

PN	16/25/40
DN	15 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 m³/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

http://shop.ksb.com/catalog/k0/en/product/ES000662

Balancing and shut-off valves to DIN/EN

BOA-Control/BOA-Control IMS

PN	16
DN	15 - 350
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +120

Description:
BOA-Control IMS:
Balancing valve to DIN/EN with flanged ends, bonnetless, throttling plug, scaled position indicator, travel stop and insulating cap with anti-condensation feature, maintenance-free; full insulation possible; with ultrasonic sensor system for measuring flow rate and temperature, sensors not in contact with fluid handled, constant measurement accuracy when combined with BOATRONIC MS or BOATRONIC MS-420, independent of minimum differential pressures.
BOA-Control:
Balancing valve to DIN/EN with flanged ends, bonnetless, 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, constant measurement accuracy when combined with BOATRONIC MS, independent of minimum differential pressures.

Applications:
Hot-water heating systems up to 120 °C (BOA-Control). Air-conditioning and cooling systems, measurement valve (BOA-Control IMS). Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and uncoated cast iron.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000323

BOA-Control SAR

PN	16
DN	10 - 50
$T_{min.}$ [°C]	≥ -25
$T_{max.}$ [°C]	≤ +150

Description:
Balancing valve to DIN/EN with female screwed ends; differential pressure measurement for flow metering with PFM 2000 measuring computer; digital travel position indicator with 40 settings, locking device and travel stop, maintenance-free.

Applications:
Hot-water heating systems up to 150 °C. Air-conditioning systems. Other fluids on request.

m

http://shop.ksb.com/catalog/k0/en/product/ES000324

Level control valves to DIN/EN

CONDA-VLC

PN	16
DN	25 - 300
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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:
In water supply systems, industry and building services. For controlling water levels.

http://shop.ksb.com/catalog/k0/en/product/ES000835

Pressure reducing valves to DIN/EN

CONDA-VRC

PN	16/25/40/63
DN	15 - 150
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 as an efficient protection against water hammer, industry and building services.

http://shop.ksb.com/catalog/k0/en/product/ES000834

Pressure sustaining valves to DIN/EN

CONDA-VSM

PN	16/25/40
DN	50 - 150
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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:
In water supply systems for controlling upstream pressure, in irrigation or fire-fighting systems, industry and building services.

http://shop.ksb.com/catalog/k0/en/product/ES000678

Air valves to DIN/EN

BOAVENT-AVF

PN	16
DN	50 - 300
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 the piping system, allowing the entry and discharge of large volumes of air and release of air pockets in working conditions.
Applications:
Water supply system, clean water, irrigation.

http://shop.ksb.com/catalog/k0/en/product/ES000831

BOAVENT-SIF

PN	16
DN	25 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 the piping system, allowing the entry and discharge of large volumes of air and release of air pockets in working conditions.
Applications:
Water supply system, clean water, irrigation.

http://shop.ksb.com/catalog/k0/en/product/ES000832

BOAVENT-SVA

PN	16
DN	50 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +60

Description:
Automatic air valve with one float and three functions. With flanged or threaded ends, body made of nodular cast iron, single-chamber design with polypropylene float. The air valve ensures proper operation of the piping system, allowing the entry and discharge of large volumes of air and release of air pockets in working conditions.

Applications:
Water supply, waste water, untreated waste water.

http://shop.ksb.com/catalog/k0/en/product/ES000833

BOAVENT-SVF

PN	16/25/40
DN	25 - 300
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 the piping system, allowing the entry and discharge of large volumes of air and release of air pockets in working conditions.

Applications:
Water supply system, clean water, irrigation.

http://shop.ksb.com/catalog/k0/en/product/ES000832

Vent valves for nuclear applications

SISTO-VentNA

PN	16
DN	15
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +100

Description:
Vent valve for nuclear applications, with butt weld ends, soft-seated.

Applications:
Heating systems, air-conditioning systems.

http://shop.ksb.com/catalog/k0/en/product/ES000842

SISTO-KRVNA

PN	16
DN	25 - 100
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +100

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

Applications:
Tank venting, drainage systems.

http://shop.ksb.com/catalog/k0/en/product/ES000839

Gate valves to DIN/EN

COBRA-SGP/SGO/SGF

PN	16/25
DN	25 - 600
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +70

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 and treatment systems, air-conditioning systems.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000828

COBRA-SMP

PN	16
DN	40 - 300
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 industry, building services.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000829

ECOLINE SP/SO

PN	10/16/25
DN	40 - 600
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 industry, water engineering, building services.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000654

ECOLINE GT 40

PN	10 - 40
DN	50 - 800
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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:
In industrial plants, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000676

STAAL 40 AKD/AKDS

PN	10 - 40
DN	50 - 600
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +450

Description:
Gate valve to DIN/EN with flanged or butt weld ends, bolted bonnet, body of forged or welded steel 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:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000469

STAAL 100 AKD/AKDS

PN	63 - 100
DN	50 - 500
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +530

Description:
Gate valve to DIN/EN with flanged or butt weld ends, bolted bonnet, body of forged or welded steel 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:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000369

AKG-A/AKGS-A

PN	63 - 160
DN	80 - 300
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +550

Description:
Gate valve to DIN/EN with flanged or butt weld ends, 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:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000371

ZTS

PN	≤ 600
Class	4500
DN	50 - 800
NPS [inch]	2 - 32
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000375

Gate valves to ANSI/ASME

ECOLINE GTB 800

Class	150-800
NPS [inch]	½ - 2
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +427

Description:
Gate valve to ANSI/ASME, with threaded sockets (NPT) or socket weld ends (SW), forged 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 industry; for thermal oil, steam, toxic and volatile fluids. Other applications on request.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000903

ECOLINE GTC 150-600

Class	150 - 600
NPS [inch]	2 - 36
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +816

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

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000774

ECOLINE GTF 150-600

Class	150 - 600
NPS [inch]	½ - 2
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +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.

e, m http://shop.ksb.com/catalog/k0/en/product/ES000611

ECOLINE GTF 800-2500

Class	800 - 2500
NPS [inch]	½ - 2
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +538

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 (Class 800) or welded bonnet (Class 1500 and 2500), 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.

e, m http://shop.ksb.com/catalog/k0/en/product/ES000797

ECOLINE GTV 150-300

Class	150 - 300
NPS [inch]	½ - 12
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +816

Description:
Gate valve to ANSI/ASME with flanged ends, cast steel A351 CF8/CF8M, Trim 2 (304/304) and Trim 10 (316/316) for Class 150/300, with bolted bonnet, outside screw and yoke, non-rotating stem, flexible wedge, integral seat, graphite gland packing, stainless steel/graphite gaskets.
Applications:
Fine chemicals, food industry, general industry; water, steam, gas and other fluids.

e, m http://shop.ksb.com/catalog/k0/en/product/ES000373

SICCA 150-600 GTC

Class	150 - 600
NPS [inch]	2 - 24
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +593

Description:
Gate valve to ANSI/ASME with flanged or butt weld ends, bolted bonnet, outside screw and yoke, flexible wedge, non-rotating rising stem and non-rising handwheel, seat/disc interface made of 13 % chrome steel, Stellite hard-faced; 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 applications on request.

e, m http://shop.ksb.com/catalog/k0/en/product/ES000482

SICCA 900-3600 GTC

Class	900 - 3600
NPS [inch]	2 - 28
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +650

Description:
Gate valve to ANSI/ASME with butt weld ends, pressure seal design, split-wedge 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 applications on request.

e, m http://shop.ksb.com/catalog/k0/en/product/ES000483

SICCA 800-1500 GTF

Class	800 - 1500
NPS [inch]	¼ - 2
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +816

Description:
Gate valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, bolted bonnet (Class 800) or welded bonnet (Class 1500), single-piece wedge, outside screw and yoke, seat/disc interface made of 13 % chrome steel, Stellite hard-faced, with graphite gasket and gland packing. Available in carbon steel and alloy steel.
Applications:
Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other applications on request.

e, m

http://shop.ksb.com/catalog/k0/en/product/ES000479

WADA GT 150

Class	150
NPS [inch]	1 - 12
$T_{min.}$ [°C]	≥ -196
$T_{max.}$ [°C]	≤ +100

Description:
Gate valve to ANSI/ASME with flanged, butt weld or socket weld ends, made of cast steel A351 CF3M/CF8/CF8M, bolted bonnet, outside screw and yoke, flexible wedge, graphite or PTFE gland packing, stainless steel/graphite gaskets.
Applications:
Natural gas liquefaction and other liquefied gases.

e, m, p, h

http://shop.ksb.com/catalog/k0/en/product/ES000888

Gate valves for nuclear applications

ZTN

PN	≤ 320
DN	80 - 700
$T_{min.}$ [°C]	≥ -29
$T_{max.}$ [°C]	≤ +365

Description:
Gate valve for nuclear applications, with butt weld ends, 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.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000456

Body pressure relief valves

UGS

PN	≥ 40
DN	15

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

http://shop.ksb.com/catalog/k0/en/product/ES000899

Knife gate valves to DIN/EN

HERA-BD

PN	10
DN	50 - 1200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +120

Description:
Knife gate valve to DIN/EN with wafer-type single-piece or two-piece body made of grey cast iron, bi-directional, with gland packing, non-rising stem, corrosion-protected by epoxy coating.
Applications:
In industrial plants, waste water and process engineering, food industry. For water, waste water and solids-laden fluids. Other fluids on request.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000597

Knife gate valves to ANSI/ASME

HERA-BDS

Class	150
DN	50 - 600
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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, sewage treatment plants and the chemical industry. Other fluids on request.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000895

HERA-BHT

Class	150
DN	80 - 600
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +100

Description:
Knife gate valve to ANSI/ASME, semi-lug body made of carbon steel or stainless steel, two-piece body, 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.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000891

HERA-SH

Class	150
DN	50 - 1000
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +180

Description:
Knife gate valve to ANSI/ASME with full-lug body made of carbon steel or stainless steel, single-piece body, uni-directional, with gland packing, rising stem, non-rising handwheel.
Applications:
In industrial and waste water engineering, pulp and paper industry, food and beverages industry, chemical industry. For water, waste water and solids-laden fluids. Other fluids on request.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000844

Lift check valves to DIN/EN

BOA-RPL

PN	10/16
DN	25 - 400
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 and treatment systems, waste water.

http://shop.ksb.com/catalog/k0/en/product/ES000635

BOA-RFV

PN	10/16/25/40/63
DN	40 - 600
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 and vertical pipes. Rapid closure without surge pressures.
Applications:
Water supply systems, heating systems, air-conditioning systems.

http://shop.ksb.com/catalog/k0/en/product/ES000653

BOA-RVK

PN	6/10/16
DN	15 - 200
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +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.

http://shop.ksb.com/catalog/k0/en/product/ES000357

BOA-R

PN	6/16
DN	15 - 350
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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.

http://shop.ksb.com/catalog/k0/en/product/ES000356

NORI 40 RXL/RXS

PN	25/40
DN	10 - 300
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +450

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

http://shop.ksb.com/catalog/k0/en/product/ES000358

NORI 160 RXL/RXS

PN	63 - 160
DN	10 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +550

Description:
Lift check valve to DIN/EN, with flanged, butt weld or socket weld ends, check disc with closing spring, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.
Applications:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

http://shop.ksb.com/catalog/k0/en/product/ES000360

RGS

PN	250 - 500
DN	10 - 50
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

http://shop.ksb.com/catalog/k0/en/product/ES000364

BOACHEM-RXA

PN	10 - 40
DN	15 - 400
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 beverages industries, for aggressive fluids. Other fluids on request.

http://shop.ksb.com/catalog/k0/en/product/ES000366

Lift check valves to ANSI/ASME

ECOLINE PTF 150-600

Class	150 - 600
NPS [inch]	½ - 2
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +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 applications, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

http://shop.ksb.com/catalog/k0/en/product/ES000424

ECOLINE PTF 800-2500

Class	800 - 2500
NPS [inch]	½ - 2
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +538

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 (Class 800) or welded cover (Class 1500 and 2500), spring-loaded valve disc, available in carbon steel and alloy steel.
Applications:
Industrial applications, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

http://shop.ksb.com/catalog/k0/en/product/ES000374

SICCA 800-4500 PCF

Class	800 - 4500
NPS [inch]	¼ - 2
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +816

Description:
Lift check valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, with spring-loaded valve disc, bolted cover (Class 800) or welded cover (Class 1500/2500/4500), Stellite hard-faced body seat, disc seating face made of Stellite hard-faced 13 % chrome steel, with graphite gasket. Available in carbon steel and alloy steel.

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

http://shop.ksb.com/catalog/k0/en/product/ES000481

WADA SC 150

Class	150
NPS [inch]	½ - 18
$T_{min.}$ [°C]	≥ -196
$T_{max.}$ [°C]	≤ +100

Description:
Swing check valve / lift check valve to ANSI/ASME with flanged, butt weld or socket weld ends, made of cast steel A351 CF3M/CF8/CF8M, bolted cover, dash-pot function, graphite or stainless steel/graphite gaskets.

Applications:
Natural gas liquefaction and other liquefied gases.

http://shop.ksb.com/catalog/k0/en/product/ES000890

Lift check valves for nuclear applications

NUCA/-A/-ES, Type V

PN	≤ 410
DN	10 - 50
$T_{min.}$ [°C]	≥ -29
$T_{max.}$ [°C]	≤ +365

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

Applications:
Feed water and live steam systems.

http://shop.ksb.com/catalog/k0/en/product/ES000455

RJN

PN	≤ 140
DN	80 - 600
$T_{min.}$ [°C]	≥ -29
$T_{max.}$ [°C]	≤ +300

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

Applications:
Feed water and live steam systems.

http://shop.ksb.com/catalog/k0/en/product/ES000459

RYN

PN	≤ 210
DN	65 - 300
$T_{min.}$ [°C]	≥ -29
$T_{max.}$ [°C]	≤ +365

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

Applications:
Feed water and live steam systems.

http://shop.ksb.com/catalog/k0/en/product/ES000333

Swing check valves to DIN/EN

COBRA-SCBS

PN	16
DN	50 - 300
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +300

Description:
Swing check valve to British standards, with flanged ends, metal-seated, body and valve disc made of nodular cast iron, with bolted cover, stainless steel/graphite gaskets.
Applications:
Water supply, treatment and distribution systems, waste water, irrigation, drinking water, seawater, air, gas, oil.

http://shop.ksb.com/catalog/k0/en/product/ES000827

ECOLINE WT/WTI

PN	16
DN	50 - 300
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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, sewage treatment plants, air-conditioning systems, cooling circuits, water supply systems.

http://shop.ksb.com/catalog/k0/en/product/ES000638

STAAL 40 AKK/AKKS

PN	10 - 40
DN	80 - 400
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +450

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

http://shop.ksb.com/catalog/k0/en/product/ES000471

STAAL 100 AKK/AKKS

PN	63 - 100
DN	80 - 400
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +530

Description:
Swing check valve to DIN/EN with flanged or butt weld ends, bolted cover, internally mounted hinge pin, body of forged or welded steel construction, seat/disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.
Applications:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

http://shop.ksb.com/catalog/k0/en/product/ES000391

AKR/AKRS

PN	63 - 160
DN	80 - 300
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +550

Description:
Swing check valve to DIN/EN with flanged or butt weld ends, 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:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

http://shop.ksb.com/catalog/k0/en/product/ES000394

ZRS

PN	≤ 600
DN	50 - 800
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

http://shop.ksb.com/catalog/k0/en/product/ES000396

SISTO-RSK/RSKS

PN	16
DN	25 - 300
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +140

Description:
Swing check valve to DIN/EN 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:
In building services, industrial plants and power stations; suitable for drinking water, service water, from fluids handled in the food and beverages industry to abrasive and aggressive products in chemical and process engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000397

SERIE 2000

PN	16/25
Class	150/300
DN	50 - 600
$T_{min.}$ [°C]	≥ -196
$T_{max.}$ [°C]	≤ +538

Description:
Dual-plate check valve with single-piece, wafer-type body made of lamellar graphite cast iron, nodular cast iron, steel, stainless steel or copper aluminium alloy, 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.

http://shop.ksb.com/catalog/k0/en/product/ES000393

Swing check valves to ANSI/ASME

ECOLINE SCC 150-600

Class	150 - 600
NPS [inch]	2 - 24
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +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 applications on request.

http://shop.ksb.com/catalog/k0/en/product/ES000776

ECOLINE SCF 150-600

Class	150 - 600
NPS [inch]	½ - 2
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +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 applications, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

http://shop.ksb.com/catalog/k0/en/product/ES000799

ECOLINE SCF 800-2500

Class	800 - 2500
NPS [inch]	½ - 2
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +538

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

http://shop.ksb.com/catalog/k0/en/product/ES000798

ECOLINE SCV 150-300

Class	150 - 300
NPS [inch]	½ - 12
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +816

Description:
Swing check valve to ANSI/ASME with flanged ends, cast steel A351 CF8/CF8M, Trim 2 (304/304) and Trim 10 (316/316) for Class 150/300, with bolted cover, integral seat, stainless steel/graphite gaskets.
Applications:
Fine chemicals, food industry and general industry. For water, steam, gas and other fluids. Other applications on request.

http://shop.ksb.com/catalog/k0/en/product/ES000335

SICCA 150-600 SCC

Class	150 - 600
NPS [inch]	2 - 24
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +593

Description:
Swing check valve to ANSI/ASME with flanged or butt weld ends, bolted cover, internally mounted hinge pin. Bigger sizes with anti-slam/dash pot arrangement (optional), graphite gasket. Seat/disc interface made of 13 % chrome steel, Stellite hard-faced. 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 applications on request.

http://shop.ksb.com/catalog/k0/en/product/ES000486

SICCA 900-3600 SCC

Class	900 - 3600
NPS [inch]	2 - 28
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +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 applications on request.

http://shop.ksb.com/catalog/k0/en/product/ES000487

WADA SC 150

Class	150
NPS [inch]	½ - 18
$T_{min.}$ [°C]	≥ -196
$T_{max.}$ [°C]	≤ +100

Description:
Swing check valve / lift check valve to ANSI/ASME with flanged, butt weld or socket weld ends, made of cast steel A351 CF3M/CF8/CF8M, bolted cover, dash-pot function, graphite or stainless steel/graphite gaskets.
Applications:
Natural gas liquefaction and other liquefied gases.

http://shop.ksb.com/catalog/k0/en/product/ES000890

Swing check valves for nuclear applications

SISTO-RSKNA

PN	16
DN	25 - 300
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +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.

http://shop.ksb.com/catalog/k0/en/product/ES000838

ZRN

PN	≤ 320
DN	50 - 600
$T_{min.}$ [°C]	≥ -29
$T_{max.}$ [°C]	≤ +365

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

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

http://shop.ksb.com/catalog/k0/en/product/ES000399

Tilting disc check valves to DIN/EN

COBRA-TDC01/03

PN	10/16/25
DN	100 - 2200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +70

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

http://shop.ksb.com/catalog/k0/en/product/ES000830

Strainers to DIN/EN

BOA-S

PN	6/16/25
DN	15 - 400
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +350

Description:
Strainer to DIN/EN with flanged ends, with standard or fine screen; all nominal sizes with drain plug in the cover.

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.

http://shop.ksb.com/catalog/k0/en/product/ES000401

NORI 40 FSL/FSS

PN	25/40
DN	15 - 300
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +450

Description:
Strainer to DIN/EN with flanged or butt weld ends, body made of cast steel, with standard or fine screen; all nominal sizes with drain plug in the cover, optional magnetic inserts.

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

http://shop.ksb.com/catalog/k0/en/product/ES000523

BOACHEM-FSA

PN	10 - 40
DN	15 - 400
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 beverages industries, for aggressive fluids. Other fluids on request.

http://shop.ksb.com/catalog/k0/en/product/ES000402

Strainers to ANSI/ASME

ECOLINE FYC 150-600

Class	150 - 600
NPS [inch]	2 - 12
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +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 industrial applications; water, steam, gas, oil. Other applications on request.

http://shop.ksb.com/catalog/k0/en/product/ES000665

ECOLINE FYF 800

Class	800
NPS [inch]	½ - 2
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +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 applications, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.

http://shop.ksb.com/catalog/k0/en/product/ES000666

Centred-disc butterfly valves

BOAX-CBV13

PN	10/16
DN	50 - 1200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +115

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, treatment and distribution systems, waste water, irrigation, ultra-pure water, air, oil.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000825

BOAX-S/SF

PN	6/10/16
DN	20 - 600
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +130

Description:
Centred-disc butterfly valve for building services, with heat barrier and elastomer liner (EPDM XU or Nitrile K), with lever, manual gearbox or electric actuator; semi-lug body (T2) or full-lug body (T4) suitable for downstream dismantling and dead-end service. Valve disc made of stainless steel 1.4308, connections to EN.
Applications:
Heating, ventilation, air-conditioning systems, for drinking water.

e, m, p + AMTROBOX/AMTRONIC/SMARTRONIC

http://shop.ksb.com/catalog/k0/en/product/ES000388

BOAX-S/SF Gaz

PN	≤ 10
DN	20 - 600
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +60

Description:
Centred-disc butterfly valve for gas lines, with elastomer liner (epichlorohydrin EG), with yellow lever; semi-lug body (T2), full-lug body (T4). Valve disc made of stainless steel 1.4308, connections to EN.
Applications:
Gas lines

m

http://shop.ksb.com/catalog/k0/en/product/ES000388

BOAX-B

PN	10/16
DN	40 - 1000
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +130

Description:
Centred-disc butterfly valve, sealed by elastomer liner (EPDM XC or Nitrile K), with lever, manual gearbox, pneumatic or electric actuator; wafer-type body (T1), 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. Valve disc made of nodular cast iron or stainless steel. Connections to EN, ASME or JIS.
Applications:
Engineering contractors. General water circuits, heating oil, oil. Shut-off and control duties in water management for water supply, water treatment, drainage and irrigation.

e, m, p + AMTROBOX/AMTRONIC/SMARTRONIC

http://shop.ksb.com/catalog/k0/en/product/ES000573

BOAX-B Gaz

PN	10/16
DN	40 - 300
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +90

Description:
Centred-disc butterfly valve, sealed by elastomer liner (epichlorohydrin EG or Nitrile K), with lever; semi-lug body (T2) or full-lug body (T4), valve disc made of nodular cast iron. Connections to EN.
Applications:
Gas pipes to NF ROB.GAZ N°095.00

m

http://shop.ksb.com/catalog/k0/en/product/ES000574

BOAX-B APSAD

PN	≤ 16
DN	40 - 300
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +110

Description:
Centred-disc butterfly valve, sealed by elastomer liner (EPDM XC), with manual gearbox to APSAD; semi-lug body (T2) suitable for downstream dismantling, valve disc made of nodular cast iron. Connections to EN.
Applications:
Fire protection

m

http://shop.ksb.com/catalog/k0/en/product/ES000867

BOAX-B DVGW

PN	10
DN	40 - 300
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +60

Description:
Centred-disc butterfly valve, sealed by elastomer liner (epichlorohydrin), with lever; semi-lug body (T2) or full-lug body (T4), valve disc made of nodular cast iron or stainless steel. Connections to EN.
Applications:
Gas lines and biogas plants.

m

http://shop.ksb.com/catalog/k0/en/product/ES000574

BOAX-B FM

PN	16
DN	40 - 300
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +110

Description:
Centred-disc butterfly valve, sealed by elastomer liner (EPDM XC), with manual gearbox to FM; semi-lug body (T2) suitable for downstream dismantling, valve disc made of nodular cast iron or stainless steel. Connections to EN.
Applications:
Fire protection

m

http://shop.ksb.com/catalog/k0/en/product/ES000904

ISORIA 10/16

PN	10/16
DN	40 - 1000
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +200

Description:
Centred-disc butterfly valve, 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.

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

http://shop.ksb.com/catalog/k0/en/product/ES000377

ISORIA 20/25

PN	20/25
DN	32 - 1000
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +200

Description:
Centred-disc butterfly valve, 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.

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

http://shop.ksb.com/catalog/k0/en/product/ES000379

ISORIA 20 UL

PN	16
DN	40 - 700
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +200

Description:
Centred-disc butterfly valve, sealed by elastomer liner, with manual gearbox; semi-lug body (T2), full-lug body (T4). Body types T2 and T4 are suitable for downstream dismantling and dead-end service with counterflange. Connections to EN, ASME, JIS. Underwriter Laboratories (UL) approved.
Applications:
Fire protection

m

http://shop.ksb.com/catalog/k0/en/product/ES000379

MAMMOUTH

PN	6/10/16/20/25
DN	1050 - 4000
$T_{min.}$ [°C]	≥ 0
$T_{max.}$ [°C]	≤ +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.

e, m, p + AMTROBOX/AMTRONIC/SMARTRONIC

http://shop.ksb.com/catalog/k0/en/product/ES000382

KE

PN	10
DN	40 - 600
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +200

Description:
Centred-disc butterfly valve with PFA liner for the chemical industry. 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:
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.

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

http://shop.ksb.com/catalog/k0/en/product/ES000380

Double-offset butterfly valves

APORIS

PN	10/16/25
DN	100 - 2000
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +85

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.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000930

DANAÏS 150

PN	≤ 25
Class	150
DN	50 - 1200
$T_{min.}$ [°C]	≥ -50
$T_{max.}$ [°C]	≤ +260

Description:
Double-offset butterfly valve, 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, aluminium bronze or duplex stainless steel (254 SMO). Wafer-type body (T1), full-lug body (T4), T4 suitable for downstream dismantling and dead-end service. Connections to EN, ASME, JIS.

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.

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

http://shop.ksb.com/catalog/k0/en/product/ES000427

DANAÏS MTII

PN	25/50
Class	150/300
DN	50 - 600
$T_{min.}$ [°C]	≥ -50
$T_{max.}$ [°C]	≤ +260

Description:
Double-offset butterfly valve 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.

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

http://shop.ksb.com/catalog/k0/en/product/ES000381

DANAÏS TBTII

PN	10/20
Class	150
DN	50 - 1200
$T_{min.}$ [°C]	≥ -50
$T_{max.}$ [°C]	≤ +200

Description:
Double-offset butterfly valve for cryogenic applications; full-lug body (T4), flanged body (T7) with flat or raised faces, or body with butt weld ends made of stainless steel to ASME Class 150, JIS, fire-safe design. On request degreased for oxygen service. Manual gearbox, pneumatic, electric or hydraulic actuator.

Applications:
Natural gas liquefaction, onshore and offshore plants. All liquefied gases.

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

http://shop.ksb.com/catalog/k0/en/product/ES000815

Triple-offset butterfly valves

TRIODIS 150

PN	≤ 20
Class	150
DN	50 - 1400
$T_{min.}$ [°C]	≥ -196
$T_{max.}$ [°C]	≤ +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 can be used 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). 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, oil, gas, petrochemical industry, tank farms, refineries, onshore and offshore plants.

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

http://shop.ksb.com/catalog/k0/en/product/ES000816

TRIODIS 300

PN	≤ 50
Class	300
DN	80 - 1200
$T_{min.}$ [°C]	≥ -196
$T_{max.}$ [°C]	≤ +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 can be used 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 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/SMARTRONIC

http://shop.ksb.com/catalog/k0/en/product/ES000817

TRIODIS 600

PN	≤ 100
Class	600
DN	150 - 1000
$T_{min.}$ [°C]	≥ -196
$T_{max.}$ [°C]	≤ +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 can be used 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/SMARTRONIC

http://shop.ksb.com/catalog/k0/en/product/ES000818

Butterfly valves for nuclear applications

CLOSSIA

PN	≤ 5,5
DN	250/500/750/1000
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +170

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

Applications:
In reactor containment of nuclear power stations.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000907

Combined butterfly/check valve

DUALIS

DN	500 - 1400
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +65

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

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

http://shop.ksb.com/catalog/k0/en/product/ES000905

Single-piece ball valves

MP-CI/MP-II

PN	16
DN	15 - 150
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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

http://shop.ksb.com/catalog/k0/en/product/ES000625

PROFIN-VT1

PN	40
DN	8 - 50
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +150

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

http://shop.ksb.com/catalog/k0/en/product/ES000894

Two-piece ball valves

ECOLINE BLT 150-300

Class	150 / 300
DN	15 - 300
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000795

PROFIN-VT2L

PN	40
DN	8 - 80
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +150

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

http://shop.ksb.com/catalog/k0/en/product/ES000894

Three-piece ball valves

ECOLINE BLC 1000

Class	1000 WOG
DN	8 - 100
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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

http://shop.ksb.com/catalog/k0/en/product/ES000794

PROFIN-SI3FIT/-SI3IT/-SI3LIT

PN	16/40
DN	15 - 100
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 stem, spring-loaded stem seal, body made of stainless steel.
Applications:
In 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, p

http://shop.ksb.com/catalog/k0/en/product/ES000893

PROFIN-VT3/-VT3L/-VT3F/-VT33L

PN	16/40
DN	8 - 100
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 stem, body made of stainless steel.
Applications:
In 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

http://shop.ksb.com/catalog/k0/en/product/ES000894

Soft-seated diaphragm valves to DIN/EN

SISTO-KB

PN	10
DN	15 - 200
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +140

Description:
Diaphragm valve to DIN/EN with flanged ends; shut-off and sealing to atmosphere by diaphragm; straight-way pattern, body with or without lining, position indicator with integrated stem protection. DN 125 to DN 200 with threaded bush. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.
Applications:
In building services, industrial plants, power stations; suitable for abrasive and aggressive products such as service water, waste water, acids, alkaline solutions, sludges and suspensions.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000314

SISTO-KBS

PN	10
DN	15 - 200
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +140

Description:
Diaphragm valve to DIN/EN with flanged ends, short face-to-face length; shut-off and sealing to atmosphere by diaphragm; straight-way pattern, body with or without lining, position indicator with integrated stem protection. DN 125 to DN 200 with threaded bush. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications:
In building services, industrial plants, power stations; suitable for abrasive and aggressive products such as service water, waste water, acids, alkaline solutions, sludges and suspensions.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000526

SISTO-10

PN	10
DN	15 - 300
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +160

Description:
Diaphragm valve to DIN/EN with flanged ends; shut-off and sealing to atmosphere by spiral-supported diaphragm (DN 65 and above); 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:
In industrial and chemical plants, in process engineering. Suitable for service water, air, oil, abrasive and aggressive fluids.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000315

SISTO-10M

PN	10
DN	15 - 80
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +140

Description:
Diaphragm valve to DIN/EN with threaded sockets; shut-off and sealing to atmosphere by spiral-supported diaphragm (DN 65 and above); position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications:
In industrial and chemical plants, in process engineering. Suitable for service water, air, oil, abrasive and aggressive fluids.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000513

SISTO-16

PN	16
DN	15 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +160

Description:
Diaphragm valve to DIN/EN with flanged ends; shut-off and sealing to atmosphere by completely enclosed spiral-supported 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:
In building services, industrial plants and power stations; suitable for drinking water, service water, air, oil, technical gases; from fluids handled in the food and beverages industry to abrasive and aggressive products in chemical and process engineering.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000316

SISTO-16S

PN	16
DN	15 - 200
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +160

Description:
Diaphragm valve to DIN/EN with flanged ends, short face-to-face length; shut-off and sealing to atmosphere by completely enclosed spiral-supported 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:
In building services, industrial plants and power stations; suitable for drinking water, service water, air, oil, technical gases; from fluids handled in the food and beverages industry to abrasive and aggressive products in chemical and process engineering.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000514

SISTO-16RGA

PN	16
DN	15 - 80
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +90

Description:
Diaphragm valve to DIN/EN with gunmetal body and threaded sockets for drinking water installations in building services to DIN 1988, DIN-DVGW-approved for water acc. to test W 270, in compliance with KTW recommendations (use of elastomers in drinking water applications); shut-off and sealing to atmosphere by completely enclosed 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

http://shop.ksb.com/catalog/k0/en/product/ES000319

SISTO-16TWA/HWA/DLU

PN	16
DN	15 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +140

Description:
Diaphragm valve to DIN/EN with flanged ends, for drinking water installations to DIN 1988, DIN-DVGW-approved for water acc. to test W 270, in compliance with KTW recommendations (use of elastomers in drinking water applications); shut-off and sealing to atmosphere by completely enclosed 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-16 DLU (compressed air up to 90 °C): compressed air with oil content, oils and technical gases.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000318

SISTO-20

PN	16
DN	15 - 200
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +160

Description:
Diaphragm valve to DIN/EN with flanged ends; shut-off and sealing to atmosphere by completely enclosed spiral-supported 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:
In building services, industrial plants and power stations; suitable for drinking water, service water, air, oil, technical gases; from fluids handled in the food and beverages industry to abrasive and aggressive products in chemical and process engineering.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000317

SISTO-C

PN	16
DN	6 - 100
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +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 completely enclosed diaphragm. No dead volumes, suitable for sterilisation, SIP/CIP-compliant design, visual position indicator. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications:
Biotechnology, pharmaceutical industry, sterile processes, food and beverages industry.

m, p

http://shop.ksb.com/catalog/k0/en/product/ES000320

Diaphragm valves for nuclear applications

SISTO-20NA

PN	20
DN	8 - 150
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +100

Description:
Diaphragm valve for nuclear applications, with butt weld ends; shut-off and sealing to atmosphere by completely enclosed spiral-supported 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.

e, m, p

http://shop.ksb.com/catalog/k0/en/product/ES000840

SISTO-DrainNA

PN	16
DN	15 - 25
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +100

Description:
Diaphragm valve for nuclear applications, with butt weld ends; shut-off and sealing to atmosphere by completely enclosed spiral-supported diaphragm. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.
Applications:
Heating systems, air-conditioning systems, auxiliary systems.

m

http://shop.ksb.com/catalog/k0/en/product/ES000841

Feed water bypass valves

ZJSVM/RJSVM

PN	≤ 600
DN	100 - 800
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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:
In industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.

e, m, p

Expansion and anti-vibration joints

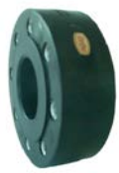
ECOLINE GE1/GE2/GE3

PN	16
DN	15 - 300
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 beverages industry, water treatment, water supply.

http://shop.ksb.com/catalog/k0/en/product/ES000687

ECOLINE GE4



PN	16
DN	20 - 200
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +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 beverages industry, water treatment, water supply.

http://shop.ksb.com/catalog/k0/en/product/ES000681

Levers

CR/CM

$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +80

Description:
Lever made of ductile cast iron. CR type series: locks in 10 positions (open, closed and 8 evenly spaced intermediate positions) and CM type series: same as CR, with special coating.
Applications:
All applications in building services, water, energy and industrial engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000501

S/SR/SP

$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +80

Description:
Lever made of light metal alloy; type series S: locks in limit positions (open and closed), type series SR: locks in 9 positions (open, closed and 7 evenly spaced intermediate positions), type series SP: locks in any position.
Applications:
All applications in water, energy and industrial engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000501

Manual gearboxes

MN

Output torque [Nm]	≤ 250
Enclosure	IP67
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +80

Description:
Manual actuator for operating quarter-turn valves. MN range manual gearbox, irreversible worm gear kinematics, handwheel-operated.
Applications:
Building services, general industrial processes, water and industrial applications in non-corrosive and non-saline environments.

http://shop.ksb.com/catalog/k0/en/product/ES000503

MR

Output torque [Nm]	≤ 16000
Enclosure	IP67/IP68
$T_{min.}$ [°C]	≥ -50
$T_{max.}$ [°C]	≤ +80

Description:
Heavy-duty manual actuator for operating quarter-turn valves. MR range manual gearbox, irreversible worm gear or patented AMRI yoke kinematics. Handwheel-operated as standard. Models MR 400 to 1600 can be fitted with actuators. Options include alternative operating mechanisms, limit switch boxes, low-temperature version, etc.
Applications:
Building services, industry and process engineering, water and waste water management, energy, petroleum and natural gas, mining, dredgers and shipbuilding.

AMTROBOX

http://shop.ksb.com/catalog/k0/en/product/ES000502

Electric actuators

ACTELEC (BERNARD CONTROLS)

Quarter-turn actuator	EZ4 - SQ120
Multi-turn actuator	31 - 800
Enclosure	IP67
Output torque [Nm]	≤ 8000

Description:
Electric actuators by BERNARD CONTROLS for direct mounting on quarter-turn valves (actuator flange to ISO 5211) or with a manual gearbox of the MR type series (actuator flange to ISO 5210). Power supply: single-phase AC, three-phase or direct current. Torque switch, travel stop and limit switch box as standard. For on/off or control duties. Integrated local control or remote control.

Applications:
All applications in water engineering, energy and industrial engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000407

ACTELEC (AUMA)

Quarter-turn actuator	SQ 05.2 - SQ 12
Multi-turn actuator	31 - 1600
Enclosure	IP67
Output torque [Nm]	≤ 16000

Description:
Electric actuators by AUMA for direct mounting on quarter-turn valves (actuator flange to ISO 5211) or with a manual gearbox of the MR type series (actuator flange to ISO 5210). Power supply: single-phase AC, three-phase or direct current. Torque switch, travel stop and limit switch box as standard. For on/off or control duties. Integrated local control or remote control.

Applications:
All applications in water engineering, energy and industrial engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000407

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; factory-mounted.

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

http://shop.ksb.com/catalog/k0/en/product/ES000405

Hydraulic actuators

HQ

Output torque [Nm]	≤ 55000
Enclosure	IP68
$T_{min.}$ [°C]	-45
$T_{max.}$ [°C]	+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 valve stems with square end or flat 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

http://shop.ksb.com/catalog/k0/en/product/ES000924

Pneumatic actuators

ACTAIR NG

Output torque [Nm] at a control pressure of 6 bar	≤ 8000
Enclosure	IP68
$T_{min.}$ [°C]	≥ -50
$T_{max.}$ [°C]	≤ +80

Description:
Double-acting pneumatic actuator for mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 8 bar. Mounts on valve stems with square end or flat end. 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 adjustable travel stops for closed or closed/open position as standard, depending on the actuator size. Optional separate or integrated manual override. Suitable for mounting control unit type series AMTROBOX, AMTRONIC, SMARTRONIC or any other device with an interface to VDI/VDE 3845.

Applications:
All applications in water engineering, energy and industrial engineering.

AMTROBOX, AMTRONIC, SMARTRONIC

http://shop.ksb.com/catalog/k0/en/product/ES000411

DYNACTAIR NG

Output torque [Nm] at a control pressure of 6 bar	≤ 4000
Enclosure	IP68
$T_{min.}$ [°C]	≥ -50
$T_{max.}$ [°C]	≤ +80

Description:
Single-acting pneumatic actuator for mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 8 bar. Mounts on valve stems with square end or flat end. 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 adjustable travel stops for closed or closed/open position as standard, depending on the actuator size. Optional separate or integrated manual override. Suitable for mounting control unit type series AMTROBOX, AMTRONIC, SMARTRONIC or any other device with an interface to VDI/VDE 3845.

Applications:
All applications in water engineering, energy and industrial engineering.

AMTROBOX, AMTRONIC, SMARTRONIC

http://shop.ksb.com/catalog/k0/en/product/ES000412

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, diaphragm 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, factory-mounted. Settings are adjusted during factory test run.

Applications:
In building services, industrial plants, power stations; suitable for abrasive and aggressive products such as service water, waste water, acids, alkaline solutions, sludges and suspensions.

http://shop.ksb.com/catalog/k0/en/product/ES000805

SISTO-LAP

Control air pressure [bar]	≤ 10
Closing force [N]	≤ 250000

Description:
Piston actuator in heavy-duty design for mounting on valves with a linear stem movement (globe, diaphragm and gate valves). Mounting 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, factory-mounted. Settings are adjusted during factory test run.

Applications:
In building services, industrial plants, power stations, the food and beverages industries and the chemical industry. The pneumatic actuators can also be used in potentially explosive atmospheres.

http://shop.ksb.com/catalog/k0/en/product/ES000409

Not available for worldwide sale Actuator/Automation

SISTO-C LAP

Control air pressure [bar]	≤ 10
Closing force [N]	≤ 20000

Description:
Piston actuator in high-grade stainless steel design for use on SISTO-C 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 beverages industry.

http://shop.ksb.com/catalog/k0/en/product/ES000320

Actuator accessories

RMD

Enclosure	IP65
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +80

Description:
Manual override using a declutchable gear operator with handwheel for mounting on ACTAIR NG double-acting pneumatic actuators, DYNACTAIR NG single-acting pneumatic actuators and HQ single-acting or double-acting 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:
All applications in water, energy and industrial engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000906

Monitoring

AMTROBOX

Enclosure	IP67
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +80

Description:
Multi-functional AMTROBOX limit switch box. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX (R1149) mounts on MR manual gearboxes, ACTAIR NG pneumatic actuators and HQ hydraulic actuators.

Applications:
All applications in water engineering, building services and energy engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000463

AMTROBOX EEx ia

Enclosure	IP67
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +80

Description:
Multi-functional AMTROBOX limit switch box. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX EEx ia (R1172): intrinsically safe version for potentially explosive atmospheres.

Applications:
All applications in water engineering, building services and energy engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000463

AMTROBOX ATEX Zone 22

Enclosure	IP67
$T_{min.}$ [°C]	≥ -10
$T_{max.}$ [°C]	≤ +60

Description:
Multi-functional AMTROBOX limit switch box. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX ATEX (X1140, X1149): ATEX-compliant version for potentially explosive dust atmospheres (Zone 22).

Applications:
All applications in water engineering, building services and energy engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000463

AMTROBOX F

Enclosure	IP67
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +80

Description:
Amtrobox F is a limit switch box specially designed for levers and all ISO 5211 actuators for signalling open or closed position via Proximity sensors. It can be used with S or C levers and ACTAIR NG / DYNACTAIR NG pneumatic actuators. Thanks to its key feature, a particularly low height (< 5 mm), it can be mounted between any valve and actuator with ISO 5211 interface.

Applications:
All applications in water engineering, building services and energy engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000463

AMTROBOX M

Enclosure	IP65
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +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:
All applications in water engineering, building services and energy engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000463

AMTROBOX R

Enclosure	IP68
$T_{min.}$ [°C]	≥ -45
$T_{max.}$ [°C]	≤ +70

Description:
Sturdy and multi-functional. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX R (R1187) mounts on MR manual gearboxes, ACTAIR NG pneumatic actuators, HQ hydraulic actuators and any actuators with VDI/VDE interface.

Applications:
All applications in water engineering, energy engineering, offshore and heavy industry.

http://shop.ksb.com/catalog/k0/en/product/ES000463

AMTROBOX R EEx ia

Enclosure	IP68
$T_{min.}$ [°C]	≥ -25
$T_{max.}$ [°C]	≤ +80

Description:
Sturdy and multi-functional. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX R EEx ia (R11188): intrinsically safe version for explosive atmospheres (Zones 0 + 20).

Applications:
All applications in water engineering, energy engineering, offshore and heavy industry.

http://shop.ksb.com/catalog/k0/en/product/ES000463

AMTROBOX R Ex d

Enclosure	IP68
$T_{min.}$ [°C]	≥ -25
$T_{max.}$ [°C]	≤ +80

Description:
Sturdy and multi-functional. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX R Exd (R1189): intrinsically safe version for potentially explosive atmospheres.

Applications:
All applications in water engineering, energy engineering, offshore and heavy industry.

http://shop.ksb.com/catalog/k0/en/product/ES000463

ON/OFF valve controllers

AMTRONIC

Enclosure	IP67
Control air pressure [bar]	3 - 8
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +80

Description:
On/off control of pneumatic quarter-turn actuators and open/closed position signalling. Mounts directly on ACTAIR NG actuators with no need for a bracket, providing a rugged, compact and integrated solution. Its integrated directional control valve eliminates the need for any pneumatic lines between AMTRONIC and the actuator. The actuating time of the actuator can be set via AMTRONIC's air flow reducer. AMTRONIC can be connected to Profibus DP and AS-i field buses. AMTRONIC 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. AMTRONIC can be integrated in field bus environments with Profibus DP protocol and especially AS-i protocol. The intrinsically safe AMTRONIC Ex ia version can be operated in potentially explosive atmospheres. It complies with ATEX directive 2014/34/EU and is marked to CE 0081 Ex II 1 G. Type of protection EEx-ia IIC T6 as per EN 50014 and EN 50020.

Applications:
All applications in water, energy and industrial engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000462

Positioners

SMARTRONIC MA

Enclosure	IP67
Control air pressure [bar]	2 - 7
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +80

Description:
SMARTRONIC MA (R1310) is an electro-pneumatic digital positioner powered via the 4-20 mA signal. Mounts on ACTAIR NG/DYNACTAIR NG 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 MA reduces investment, commissioning and operating costs as the unit consumes no air while idle.

Applications:
All applications in water, energy and industrial engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000461

SMARTRONIC AS-i

Enclosure	IP67
Control air pressure [bar]	3 - 8
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +80

Description:
SMARTRONIC AS-i is an electro-pneumatic digital positioner for connection to an AS-i field bus. Certified by AS International. Mounts on ACTAIR NG/DYNACTAIR NG 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:
All applications in water, energy and industrial engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000874

Intelligent positioners

SMARTRONIC PC

Enclosure	IP67
Control air pressure [bar]	3 - 8
$T_{min.}$ [°C]	≥ -20
$T_{max.}$ [°C]	≤ +80

Description:
SMARTRONIC PC (R1312) is 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 NG or DYNACTAIR NG actuators with no need for a bracket or external piping, providing a rugged, compact and integrated solution. SMARTRONIC PC offers four functions: programmable curves for valve opening and closing, intelligent positioning, process monitoring and control. SMARTRONIC PC is PC programmable and can be connected to a Profibus DP field bus.

Applications:
All applications in water, energy and industrial engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000873

Legal information/Copyright

Product Portfolio Valves ı Actuators ı Automation

Technology that **makes its mark**

The KSB newsletter –
don't miss out, sign up now:
www.ksb.com/newsletter

Your local KSB representative:

PT. Sukma Tirta Persada
Ruko Asia Tropis (Ruko Grand Boulevard)
Jl. Taman Cemara Blok AT 15 No. 48
Harapan Indah, Bekasi 17214
Tel : (+62-21) 8896 9294 , 8896 9295
Fax: (+62-21) 8865 332
info@sukmatirta.com

www.sukmatirta.com

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

You can also visit us at
www.ksb.com/socialmedia

0570.091/24-EN / 01/01/2018 / © KSB SE & Co. KGaA 2018 · Subject to technical modification without prior notice.