

## Product Portfolio 2020

### Valves | Actuators | Automation



# Type Series Index

ACTAIR NG	60	ECOLINE SCF 150-600	45	STAAL 100 AKK/AKKS	44
ACTELEC (AUMA)	59	ECOLINE SCF 800	45	STAAL 40 AKD/AKDS	36
ACTELEC (BERNARD CONTROLS)	59	ECOLINE SCV 150-600	45	STAAL 40 AKK/AKKS	44
AKG-A/AKGS-A	37	ECOLINE SP/SO	36		
AKR/AKRS	44	ECOLINE VA16	29	TRIODIS 150	51
AMTROBOX	62	ECOLINE WT/WTI	43	TRIODIS 300	51
AMTROBOX ATEX Zone 22	62			TRIODIS 600	51
AMTROBOX EEx ia	62	HERA-BD	39		
AMTROBOX F	62	HERA-BDS	40	UGS	39
AMTROBOX M	62	HERA-BHT	40		
AMTROBOX R	63	HERA-SH	40	ZJSVM/RJSVM	56
AMTROBOX R EEx ia	63	HQ	59	ZRN	46
AMTROBOX R Ex d	63			ZRS	44
AMTRONIC	63	ISORIA 10/16	49	ZTN	39
AMTRONIC Ex ia	64	ISORIA 20 UL	49	ZTS	37
APORIS-DEB02	50	ISORIA 20/25	49	ZXNB	31
				ZXNVB	31
				ZYNB/ZYN	31
BOACHEM-FSA	47	KE	50		
BOACHEM-RXA	42				
BOACHEM-ZXA	29	MAMMOUTH	49		
BOACHEM-ZXAB/ZYAB	27	MN	58		
BOA-Compact	25	MP-CI/MP-II	52		
BOA-Compact EKB	25	MR	58		
BOA-Control SAR	33				
BOA-Control/BOA-Control IMS	33	NORI 160 RXL/RXS	41		
BOA-CVE C/CS/W/IMS/EKB/IMS EKB	32	NORI 160 ZXL/ZXS	28		
BOA-CVE H	32	NORI 160 ZXL/ZXS	28		
BOA-CVP H	32	NORI 320 ZXSV	28		
BOA-H	26	NORI 40 FSL/FSS	47		
BOA-H Mat E	31	NORI 40 RXL/RXS	41		
BOA-H Mat P	31	NORI 40 ZXL/ZXS	27		
BOA-H/HE/HV/HEV	26	NORI 40 ZXL/ZXS	26		
BOA-R	41	NORI 40 ZXL/ZXS	26		
BOA-RFV	41	NORI 40 ZXL/ZXS	28		
BOA-RPL	40	NORI 40 ZYL/ZYS	26		
BOA-RVK	41	NORI 500 ZXSV	28		
BOA-S	47	NUCA/-A/-ES, Type V	43		
BOA-SuperCompact	25	NUCA/-A/-ES, Types I, II, IV	30		
BOAVENT-AVF	34				
BOAVENT-SIF	34	PROFIN-SI3	53		
BOAVENT-SVA	35	PROFIN-VT1	52		
BOAVENT-SVF	35	PROFIN-VT2	53		
BOA-W	25	PROFIN-VT3	54		
BOAX-B	49				
BOAX-CBV13	48	RGS	42		
BOAX-S/SF	48	RJN	43		
		RMD	61		
		RYN	43		
CLOSSIA	52				
COBRA-SGP/SGO/SGF	36	S/SR/SP	58		
COBRA-SMP	36	SERIE 2000	45		
COBRA-TDC01/03	47	SICCA 150-600 GLC	30		
CONDA-VLC	33	SICCA 150-600 GTC	38		
CONDA-VRC	34	SICCA 150-600 SCC	46		
CONDA-VSM	34	SICCA 800-2500 GTF	39		
CR/CM	58	SICCA 800-4500 GLF	30		
		SICCA 800-4500 PCF	42		
DANAIS 150	50	SICCA 900-2500 GLC	30		
DANAIS MTII	50	SICCA 900-3600 GTC	38		
DANAIS TBTII	51	SICCA 900-3600 SCC	46		
DUALIS	52	SISTO-10	54		
DYNACTAIR NG	60	SISTO-10M	54		
		SISTO-16	55		
ECOLINE BLC 1000	53	SISTO-16RGA	55		
ECOLINE BLT 150-300	53	SISTO-16S	55		
ECOLINE FYC 150-600	48	SISTO-16TWA/HWA/DLU	55		
ECOLINE FYF 800	48	SISTO-20	55		
ECOLINE GE1/GE2/GE3	57	SISTO-20NA	56		
ECOLINE GE4	57	SISTO-C	56		
ECOLINE GLB 150-600	27	SISTO-C LAP	61		
ECOLINE GLB 800	27	SISTO-DrainNA	56		
ECOLINE GLC 150-600	29	SISTO-KB	54		
ECOLINE GLF 150-600	29	SISTO-KRVNA	35		
ECOLINE GLF 800	29	SISTO-LAD	60		
ECOLINE GLV 150-600	30	SISTO-LAE	59		
ECOLINE GT 40	36	SISTO-LAP	60		
ECOLINE GTB 800	37	SISTO-RSK/RSKS	44		
ECOLINE GTC 150-600	37	SISTO-RSKNA	46		
ECOLINE GTF 150-600	38	SISTO-VentNA	35		
ECOLINE GTF 800	38	SMARTRONIC AS-i	64		
ECOLINE GTV 150-600	38	SMARTRONIC MA	64		
ECOLINE PTF 150-600	42	SMARTRONIC PC	65		
ECOLINE PTF 800	42	STAAL 100 AKD/AKDS	37		
ECOLINE SCC 150-600	45				

## 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:

- Over 147 years' experience
- Present in more than 100 countries
- More than 15,000 employees
- More than 170 service centres worldwide
- Approximately 3,000 service specialists







## Smart services for maximum availability and efficiency

As a leading supplier of pumps and valves, we attach great importance to providing you with a comprehensive service of the highest quality. In fact, we believe it's so important that we even gave it a special name: KSB SupremeServ.

KSB SupremeServ is on hand to support you with classic and digital service and spare parts solutions over the entire product life cycle. Whether it's a KSB product, non-KSB product or other rotating equipment, you'll benefit from the reliable and sustainable operation of your system.

Applications:

- Water and Waste Water
- Energy
- Mining
- Industry
- Building Services

Wherever and whenever you need us, we're there for you – worldwide.

[www.ksb.com](http://www.ksb.com)

**KSB SupremeServ**





## 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 Europe-wide.

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.



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](http://www.ksb.com/industry40)



## 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

<b>Regional products</b>	<p>Not all depicted products are available for sale in every country. Products only available in individual regions are indicated accordingly. Please contact your sales representative for details.</p>
<b>Key to actuators</b>	<p>In the Products section from page 25 the symbol  in conjunction with the relevant letter indicates the actuator type(s) available.</p> <ul style="list-style-type: none"> <li> m = manual (lever, handwheel, etc.)</li> <li> e = electric actuator</li> <li> p = pneumatic actuator</li> <li> h = hydraulic actuator</li> </ul>
<b>Trademark rights</b>	<p>All trademarks or company logos shown in the catalogue are protected by trademark rights owned by KSB SE &amp; Co. KGaA and/or a KSB Group company. The absence of the "®" symbol should not be interpreted to mean that the term is not a registered trademark.</p>
<b>Product information</b>	<p>For information as per chemicals Regulation (EC) No 1907/2006 (REACH), see <a href="http://www.ksb.com/reach">www.ksb.com/reach</a>.</p>



## Valves

Design/Application	Type series	Page	Automation	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Soft-seated globe valves to DIN/EN	BOA-SuperCompact	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/ZXSBB	26			■	■	■		
	NORI 40 ZXLB/ZXSBB	26	■		■	■	■		
	NORI 40 ZYLB/ZYSBB	26			■	■	■		
	BOACHEM-ZXAB/ZYAB	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 ZXL/ZXS	28	■		■	■	■		
	NORI 160 ZXL/ZXS	28			■	■			
	NORI 160 ZXL/ZXS	28	■		■	■			
	NORI 320 ZXS	28	■		■	■			
	NORI 500 ZXS	28	■		■	■			
	BOACHEM-ZXA	29			■		■		
	ECOLINE VA16	29			■		■		
Globe valves to ANSI/ASME with gland packing	ECOLINE GLC 150-600	29	■		■	■			
	ECOLINE GLF 150-600	29	■		■	■			
	ECOLINE GLF 800	29	■		■	■			
	ECOLINE GLV 150-600	30	■		■	■			
	SICCA 150-600 GLC	30	■		■	■			
	SICCA 900-2500 GLC	30	■		■	■			
	SICCA 800-4500 GLF	30	■		■	■			
Globe valves for nuclear applications	NUCA-AI-ES, Types I, II, IV	30	■			■			
	ZXNB	31	■			■			
	ZXNVB	31				■			
	ZYNB/ZYN	31	■			■			
Automated globe valves to DIN/EN	BOA-H Mat E	31	■		■	■	■		
	BOA-H Mat P	31	■		■	■	■		
Control valves to DIN/EN	BOA-CVE C/CS/W/IMS/EKB/IMS EKB	32	■	■	■		■		
	BOA-CVE H	32	■		■	■	■		
	BOA-CVP H	32	■		■	■	■		
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 Water 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	38	■		■	■			
	ECOLINE GTV 150-600	38	■		■	■			
	SICCA 150-600 GTC	38	■		■	■			
	SICCA 900-3600 GTC	38	■		■	■			
	SICCA 800-2500 GTF	39	■		■	■			
Gate valves for nuclear applications	ZTN	39	■			■			
Body pressure relief valve	UGS	39			■	■			
Knife gate valves to DIN/EN	HERA-BD	39	■	■	■		■	■	
	HERA-BDS	40	■	■	■			■	
Knife gate valves to ANSI/ASME	HERA-BHT	40	■	■	■			■	
	HERA-SH	40	■	■	■			■	
	BOA-RPL	40		■			■		
Lift check valves to DIN/EN	BOA-RFV	41		■	■		■		
	BOA-RVK	41			■	■	■		
	BOA-R	41			■	■	■		
	NORI 40 RXL/RXS	41			■	■	■		
	NORI 160 RXL/RXS	41			■	■			
	RGS	42			■	■			
	BOACHEM-RXA	42			■		■		
	ECOLINE PTF 150-600	42			■	■			
Lift check valves to ANSI/ASME	ECOLINE PTF 800	42			■	■			
	SICCA 800-4500 PCF	42			■	■			
	NUCA-A/-ES, Type V	43				■			
Lift check valves for nuclear applications	RJN	43				■			
	RYN	43	■			■			
	ECOLINE WT/WTI	43			■		■		
Swing check valves to DIN/EN	STAAL 40 AKK/AKKS	44			■	■			
	STAAL 100 AKK/AKKS	44			■	■			
	AKR/AKRS	44			■	■			
	ZRS	44			■	■			
	SISTO-RSK/RSKS	44		■	■	■		■	
	SERIE 2000	45		■	■		■		
	ECOLINE SCC 150-600	45			■	■			
Swing check valves to ANSI/ASME	ECOLINE SCF 150-600	45			■	■			
	ECOLINE SCF 800	45			■	■			
	ECOLINE SCV 150-600	45			■	■			
	SICCA 150-600 SCC	46			■	■			
	SICCA 900-3600 SCC	46			■	■			
Swing check valves for nuclear applications	SISTO-RSKNA	46				■			
	ZRN	46				■			
Tilting disc check valves to DIN/EN	COBRA-TDC01/03	47		■	■	■			



Design/Application	Type series	Page	Automation	Water Transport and Water Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Strainers to DIN/EN	BOA-S	47			■	■	■		
	NORI 40 FSL/FSS	47			■	■	■		
	BOACHEM-FSA	47			■		■		
Strainers to ANSI/ASME	ECOLINE FYC 150-600	48			■	■			
	ECOLINE FYF 800	48			■	■			
Centred-disc butterfly valves	BOAX-CBV13	48		■	■	■	■		
	BOAX-S/SF	48	■				■		
	BOAX-B	49	■	■	■		■		
	ISORIA 10/16	49	■	■	■	■		■	
	ISORIA 20/25	49	■	■	■	■	■		
	ISORIA 20 UL	49	■		■				
	MAMMOUTH	49	■	■	■	■			
	KE	50	■	■	■				
Double-offset butterfly valves	APORIS-DEB02	50		■	■	■			
	DANAIS 150	50	■	■	■	■	■	■	
	DANAIS MTII	50	■		■	■		■	
	DANAIS TBTII	51	■		■				
Triple-offset butterfly valves	TRIODIS 150	51	■		■	■			
	TRIODIS 300	51	■		■	■			
	TRIODIS 600	51	■		■	■			
Butterfly valves for nuclear applications	CLOSSIA	52	■			■			
Combined butterfly/check valves	DUALIS	52		■					
Single-piece ball valves	MP-CI/MP-II	52	■	■					
	PROFIN-VT1	52		■	■		■		
Two-piece ball valves	ECOLINE BLT 150-300	53	■		■	■			■
	PROFIN-VT2	53		■	■		■		
Three-piece ball valves	ECOLINE BLC 1000	53	■		■	■			■
	PROFIN-SI3	53	■	■	■		■		
	PROFIN-VT3	54		■	■		■		
Soft-seated diaphragm valves to DIN/EN	SISTO-KB	54	■	■	■	■		■	
	SISTO-10	54	■	■	■	■			
	SISTO-10M	54	■	■	■	■	■		
	SISTO-16	55	■	■	■	■			
	SISTO-16S	55	■	■	■	■			
	SISTO-16RGA	55		■			■		
	SISTO-16TWA/HWA/DLU	55	■	■			■		
	SISTO-20	55	■		■	■			■
	SISTO-C	56	■	■					■
Diaphragm valves for nuclear applications	SISTO-20NA	56	■			■			
	SISTO-DrainNA	56				■			
Feed water bypass valves	ZJSVM/RJSVM	56	■		■	■			
Expansion and anti-vibration joints	ECOLINE GE1/GE2/GE3	57			■		■		
	ECOLINE GE4	57			■		■		

## Actuators

Design/Application	Type series	Page	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport	Pharmaceuticals/ Food
Levers	CR/CM	58	■	■	■	■		
	S/SR/SP	58	■	■	■	■		
Manual gearbox	MN	58	■	■		■		
	MR	58	■	■	■	■	■	
Electric actuators	ACTELEC (AUMA)	59	■	■	■	■		
	ACTELEC (BERNARD CONTROLS)	59	■	■	■	■		
	SISTO-LAE	59	■	■	■	■	■	
Hydraulic actuators	HQ	59	■	■	■			
	ACTAIR NG	60	■	■	■			
Pneumatic actuators	DYNACTAIR NG	60	■	■	■			
	SISTO-LAD	60	■	■	■	■	■	
	SISTO-LAP	60	■	■	■	■	■	
	SISTO-C LAP	61						■
Control accessories	RMD	61	■	■	■	■		

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	62	■	■	■			
	AMTROBOX EEx ia	62	■	■	■			
	AMTROBOX ATEX Zone 22	62	■	■	■			
	AMTROBOX F	62	■		■	■		
	AMTROBOX M	62	■	■	■	■		
	AMTROBOX R	63	■	■	■			
	AMTROBOX R EEx ia	63	■	■	■			
	AMTROBOX R Ex d	63	■	■	■			
ON/OFF valve controllers	AMTRONIC	63	■	■	■			
	AMTRONIC Ex ia	64	■	■	■			
Positioners	SMARTRONIC MA	64	■	■	■			
	SMARTRONIC AS-i	64	■	■	■			
Intelligent positioners	SMARTRONIC PC	65	■	■	■			





## Fluids handled

	NUCA/-A/-ES, Types I, II, IV ZYNB/ZYN ZXNB ZXNVB				BOA-H Mat E BOA-H Mat P		BOA-CVE C/CS/W/IMS/EKB/IMS EKB BOA-CVE H BOA-CVP H			BOA-Control /BOA-Control IMS BOA-Control SAR		CONDA-VLC	CONDA-VRC	CONDA-VSM	BOAVENT-AVF BOAVENT-SVF BOAVENT-SIF BOAVENT-SVA	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

	MP-CI/MP-II PROFIN-VT1	ECOLINE BLT 150-300 PROFIN-VT2	ECOLINE BLC 1000 PROFIN-S13 PROFIN-VT3	SISTO-KB SISTO-10 SISTO-10M SISTO-16 SISTO-16S SISTO-16RGA SISTO-16TWA/HWA/DLU SISTO-20 SISTO-C	SISTO-20NA SISTO-DrainNA	ZJSVM/RJSVM	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

	MP-CI/MP-II	PROFIN-VT1	ECOLINE BLT 150-300	PROFIN-VT2	ECOLINE BLC 1000	PROFIN-S13	PROFIN-VT3	SISTO-KB	SISTO-10	SISTO-10M	SISTO-16	SISTO-16S	SISTO-16RGA	SISTO-16TWA/HWA/DLU	SISTO-20	SISTO-C	SISTO-20NA	SISTO-DrainNA	ZJSVM/RJSVM	ECOLINE GE1/GE2/GE3	ECOLINE GE4	
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 beverage industry			■			■															■	■
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								■	■	■	■	■	■	■	■	■						



## Soft-seated globe valves to DIN/EN

### BOA-SuperCompact



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

#### Description

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

#### Applications

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



m, e

<http://shop.ksb.com/catalog/k0/en/product/E5000312>

### BOA-Compact



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

#### Description

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

#### Applications

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



m, e

<http://shop.ksb.com/catalog/k0/en/product/E5000310>

### BOA-Compact EKB



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

#### Description

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

#### Applications

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



m, e

<http://shop.ksb.com/catalog/k0/en/product/E5000311>

### BOA-W



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

#### Description

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

#### Applications

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



m, e

<http://shop.ksb.com/catalog/k0/en/product/E5000309>

## Bellows-type globe valves to DIN/EN

### BOA-H



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

#### Description

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

#### Applications

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



m

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

### BOA-H/HE/HV/HEV



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

#### Description

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

#### Applications

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



m, e, p

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

### NORI 40 ZXLBV/ZXSBBV



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

#### Description

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

#### Applications

Industrial plants, power stations, process engineering and shipbuilding. For water 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/ZXSBB



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

#### Description

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

#### Applications

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



m, e, p

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

### NORI 40 ZYLB/ZYSB



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

#### Description

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

#### Applications

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



m

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

## BOACHEM-ZXAB/ZYAB



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

**Description**

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

**Applications**

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


<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 [°C]	≥ 0 - ≤ +427

**Description**

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

**Applications**

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


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

## ECOLINE GLB 800



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

**Description**

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

**Applications**

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


<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 [°C]	≥ -10 - ≤ +450

**Description**

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

**Applications**

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


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

## NORI 40 ZXLF/ZXSF



PN 25/40  
DN 10 - 200  
T [°C]  $\geq -10 - \leq +450$

**Description**  
Globe valve to DIN/EN with flanged ends (ZXLF), butt weld ends or socket weld ends (ZXSF), with gland packing, with on/off disc or throttling plug, non-rotating stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

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



m, e, p

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

## NORI 160 ZXL/ZXS



PN 63 - 160  
DN 10 - 200  
T [°C]  $\geq -10 - \leq +550$

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

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



m

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

## NORI 160 ZXLF/ZXSF



PN 63 - 160  
DN 10 - 200  
T [°C]  $\geq -10 - \leq +550$

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

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



m, e, p

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

## NORI 320 ZXSV



PN 250 - 320  
DN 10 - 50  
T [°C]  $\geq -10 - \leq +580$

**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 connection, integrated position indicator, seat/disc interface made of Stellite.

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



m, e, p

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

## NORI 500 ZXSV



PN 250 - 500  
DN 10 - 65  
T [°C]  $\geq -10 - \leq +650$

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

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



m, e, p

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

## BOACHEM-ZXA



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

**Description**

Globe valve to DIN/EN with flanged ends, body made of stainless steel, gland packing, rotating stem, with on/off disc or throttling plug.

**Applications**

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



<http://shop.ksb.com/catalog/k0/en/product/E5000354>

## ECOLINE VA16



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

**Description**

Globe valve to DIN/EN with flanged ends, body made of cast iron, with gland packing, rotating stem, with on/off disc or throttling plug.

**Applications**

District heating, domestic water supply, air-conditioning systems, cooling circuits, high-temperature hot water heating systems, water supply.



## Globe valves to ANSI/ASME with gland packing

## ECOLINE GLC 150-600



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

**Description**

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

**Applications**

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



<http://shop.ksb.com/catalog/k0/en/product/E5000775>

## ECOLINE GLF 150-600



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

**Description**

Globe valve to ANSI/ASME with flanged ends, forged steel A105, Trim 8 (Stellite/13 % chrome steel), with bolted bonnet, outside screw and yoke, graphite gland packing, stainless steel/graphite gaskets, reduced bore.

**Applications**

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



<http://shop.ksb.com/catalog/k0/en/product/E5000426>

## ECOLINE GLF 800



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

**Description**

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

**Applications**

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



<http://shop.ksb.com/catalog/k0/en/product/E5000796>



## ECOLINE GLV 150-600



Class 150 - 600  
NPS [inch] 2 - 12  
T [°C]  $\geq -29 - \leq +593$

**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 fluids on request.



m, e

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

## SICCA 150-600 GLC



Class 150 - 600  
NPS [inch] 2 - 10  
T [°C]  $\geq 0 - \leq +593$

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

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



m, e

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

## SICCA 900-2500 GLC



Class 900 - 2500  
NPS [inch] 2 - 8  
T [°C]  $\geq 0 - \leq +650$

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

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



m, e

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

## SICCA 800-4500 GLF



Class 800 - 4500  
NPS [inch] ¼ - 2  
T [°C]  $\geq 0 - \leq +816$

**Description**  
Globe valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, with 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 gaskets 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 fluids on request.



m, e

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

## Globe valves for nuclear applications

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



PN  $\leq 320$   
DN 10 - 50  
T [°C]  $\geq -29 - \leq +365$

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

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



m, e, p

<http://shop.ksb.com/catalog/k0/en/product/ES000452>

## ZXNB



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

**Description**  
Bellows-type globe valve with butt weld ends, for nuclear applications with safety-related requirements, in straight-way or angle pattern, or as a two-way valve, made of steel or stainless steel.

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



m, e, p

<http://shop.ksb.com/catalog/k0/en/product/ES000458>

## ZXNVB



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

**Description**  
Bellows-type globe valve with butt weld or socket weld ends, for nuclear applications, with gland packing or bellows, straight-way pattern, made of steel or stainless steel.

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



m

<http://shop.ksb.com/catalog/k0/en/product/ES000457>

## ZYNB/ZYN



PN	≤ 62
DN	300 - 400
T [°C]	≥ -29 - ≤ +365

**Description**  
Globe valve with butt weld ends, for nuclear applications with safety-related requirements, with gland packing or bellows, Y-valve, made of cast stainless steel.

**Applications**  
Residual heat removal systems in nuclear applications.



e

<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 [°C]	≥ -10 - ≤ +350

**Description**  
Automated globe valve to DIN/EN with flanged ends, with electric actuator 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 [°C]	≥ -10 - ≤ +350

**Description**  
Automated globe valve to DIN/EN with flanged ends, with pneumatic actuator 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/IMS EKB



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

**Description**  
Control valve to DIN/EN based on standard type series BOA-Compact, BOA-SuperCompact, BOA-W, BOA-Compact EKB and BOA-Control IMS, bonnetless pressure-retaining body, soft-seated. Leakage rate selectable from 0.05 % to drop-tight, Kvs values between 6.3 and 700 m<sup>3</sup>/h and closing pressures of up to 16 bar. With intelligent microprocessor-controlled and pre-set electric actuators providing actuating forces from 1000 N to 14,000 N; electronic configuration of flow characteristic, Kvs value, actuating signal and actuating time using PC tool or manual parameterisation unit. Customised configuration can be implemented at the KSB factory on request.

**Applications**

Hot-water heating systems up to 120 °C. Ventilation and air-conditioning systems. Water supply systems, drinking water. Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and uncoated cast iron. Other fluids on request.



<http://shop.ksb.com/catalog/k0/en/product/ES000326>

### BOA-CVE H



PN	16/25/40
DN	15 - 200
T [°C]	≥ -10 - ≤ +450

**Description**  
Service-friendly control valve to DIN/EN with flanged ends, either with linear or equal-percentage control characteristic at Kvs values of 0.1 to 630 m<sup>3</sup>/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.



<http://shop.ksb.com/catalog/k0/en/product/ES000772>

### BOA-CVP H



PN	16/25/40
DN	15 - 200
T [°C]	≥ -10 - ≤ +450

**Description**  
Service-friendly control valve to DIN/EN with flanged ends, either with linear or equal-percentage control characteristic at Kvs values of 0.1 to 630 m<sup>3</sup>/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.






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

## Balancing and shut-off valves to DIN/EN

### BOA-Control/BOA-Control IMS




	PN	16	<b>Description</b> <b>BOA-Control IMS:</b> Balancing valve to DIN/EN with flanged ends, bonnetless, with throttling plug, scaled position indicator, travel stop and insulating cap with anti-condensation feature, maintenance-free; full insulation possible; suitable for measuring flow rate with ultrasonic sensors and for temperature measurement, sensors not in contact with fluid handled, mobile measurements in combination with BOATRONIC MS measuring computer, permanent measurement set-up with BOATRONIC MS-420 measuring computer, constant accuracy independent of differential pressures. Also available with electrostatic plastic coating and DVGW-certified for drinking water (BOA-Control EKB and BOA-Control IMS EKB; up to DN 200). <b>BOA-Control:</b> Balancing valve to DIN/EN with flanged ends, bonnetless, with throttling plug, scaled position indicator, travel stop and insulating cap with anti-condensation feature, maintenance-free; full insulation possible; suitable for measuring flow rate with ultrasonic sensors and for temperature measurement, sensors not in contact with fluid handled, mobile measurements in combination with BOATRONIC MS measuring computer, constant accuracy independent of differential pressures. Also available with electrostatic plastic coating and DVGW-certified for drinking water (BOA-Control EKB; up to DN 200). <b>Applications</b> Hot-water heating systems up to 120 °C (BOA-Control and BOA-Control IMS), air-conditioning systems and cooling systems, and for permanent measurement set-ups (BOA-Control IMS), drinking water systems and industrial cooling circuits (EKB model). Not suitable for fluids containing mineral oils, steam or fluids liable to attack EPDM and uncoated grey cast iron.	
	DN	15 - 350		
	T [°C]	≥ -10 - ≤ +120		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000323">http://shop.ksb.com/catalog/k0/en/product/ES000323</a>	

### BOA-Control SAR

	PN	16	<b>Description</b> 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. <b>Applications</b> Hot-water heating systems up to 150 °C. Air-conditioning systems. Other fluids on request.	
	DN	10 - 50		
	T [°C]	≥ -25 - ≤ +150		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000324">http://shop.ksb.com/catalog/k0/en/product/ES000324</a>	

## Level control valves to DIN/EN

### CONDA-VLC

	PN	16	<b>Description</b> 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. <b>Applications</b> Water supply systems, industry and building services. For controlling water levels.	
	DN	25 - 300		
	T [°C]	≥ -10 - ≤ +70		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000835">http://shop.ksb.com/catalog/k0/en/product/ES000835</a>	

## Pressure reducing valves to DIN/EN

### CONDA-VRC



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

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

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



<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 [°C]	≥ -10 - ≤ +70

**Description**  
Direct-acting pressure sustaining valve to DIN/EN with flanged ends, body made of nodular cast iron, valve disc, stem and seat made of stainless steel.

**Applications**  
Controlling upstream pressure in water supply systems, irrigation systems or fire-fighting systems, in industry and building services.



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

## Air valves to DIN/EN

### BOAVENT-AVF



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

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

**Applications**  
Water supply, clean water, irrigation.



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

### BOAVENT-SIF



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

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

**Applications**  
Water supply, clean water, irrigation.



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



## BOAVENT-SVA



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

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

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



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

## BOAVENT-SVF



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

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

**Applications**  
Water supply, clean water, irrigation.



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

## Vent valves for nuclear applications

## SISTO-VentNA



PN	16
DN	15
T [°C]	≥ -20 - ≤ +100

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

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



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

## SISTO-KRVNA



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

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

**Applications**  
Tank venting, drainage systems.



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

## Gate valves to DIN/EN

### COBRA-SGP/SGO/SGF



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

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

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



● m, e

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

### COBRA-SMP



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

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

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



● m, e

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

### ECOLINE SP/SO



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

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

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



● m, e

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

### ECOLINE GT 40



PN	10 - 40
DN	50 - 800
T [°C]	≥ -10 - ≤ +400

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

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



● m, e

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

### STAAL 40 AKD/AKDS



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

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

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



● m, e

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

## STAAL 100 AKD/AKDS



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

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

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



m, e, p

<http://shop.ksb.com/catalog/k0/en/product/E5000369>

## AKG-A/AKGS-A



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

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

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



m, e, p

<http://shop.ksb.com/catalog/k0/en/product/E5000371>

## ZTS



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

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

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



m, e, p

<http://shop.ksb.com/catalog/k0/en/product/E5000375>

## Gate valves to ANSI/ASME

## ECOLINE GTB 800



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

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

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



m, e

<http://shop.ksb.com/catalog/k0/en/product/E5000903>

## ECOLINE GTC 150-600



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

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

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



m, e

<http://shop.ksb.com/catalog/k0/en/product/E5000774>

## ECOLINE GTF 150-600



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

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

**Applications**

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



m, e

<http://shop.ksb.com/catalog/k0/en/product/ES000611>

## ECOLINE GTF 800



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

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

**Applications**

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



m, e

<http://shop.ksb.com/catalog/k0/en/product/ES000797>

## ECOLINE GTV 150-600



Class 150 - 600  
NPS [inch] 2 - 12  
T [°C] ≥ -29 - ≤ +593

**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.



m, e

<http://shop.ksb.com/catalog/k0/en/product/ES000373>

## SICCA 150-600 GTC



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

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

**Applications**

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



m, e

<http://shop.ksb.com/catalog/k0/en/product/ES000482>

## SICCA 900-3600 GTC



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

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

**Applications**

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



m, e

<http://shop.ksb.com/catalog/k0/en/product/ES000483>

## SICCA 800-2500 GTF



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

### Description

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

### Applications

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



m, e

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

## Gate valves for nuclear applications

### ZTN



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

### Description

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

### Applications

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



m, e, p

<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

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/ES000375>

## Knife gate valves to DIN/EN

### HERA-BD



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

### Description

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

### Applications

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



m, e, p

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



## Knife gate valves to ANSI/ASME

### HERA-BDS



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

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

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



● m, e, p

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

### HERA-BHT



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

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

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



● m, e, p

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

### HERA-SH



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

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

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



● m, e, p

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

## Lift check valves to DIN/EN

### BOA-RPL



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

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

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



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

## BOA-RFV



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

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

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

<http://shop.ksb.com/catalog/k0/en/product/E5000653>

## BOA-RVK



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

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

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



<http://shop.ksb.com/catalog/k0/en/product/E5000357>

## BOA-R



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

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

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



<http://shop.ksb.com/catalog/k0/en/product/E5000356>

## NORI 40 RXL/RXS



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

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

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



<http://shop.ksb.com/catalog/k0/en/product/E5000358>

## NORI 160 RXL/RXS



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



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

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





<http://shop.ksb.com/catalog/k0/en/product/E5000360>

## RGS



	PN	250 - 500	<b>Description</b> 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. <b>Applications</b> Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
	DN	10 - 50		
	T [°C]	≥ -10 - ≤ +580	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000364">http://shop.ksb.com/catalog/k0/en/product/ES000364</a>	

## BOACHEM-RXA



	PN	10 - 40	<b>Description</b> Lift check valve to DIN/EN with flanged ends, body made of stainless steel, check disc with closing spring, lapped seat/disc interface. <b>Applications</b> Process engineering, industry, building services, food and beverage industries, for aggressive fluids. Other fluids on request.	
	DN	15 - 400		
	T [°C]	≥ -10 - ≤ +400	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000366">http://shop.ksb.com/catalog/k0/en/product/ES000366</a>	

## Lift check valves to ANSI/ASME



## ECOLINE PTF 150-600

	Class	150 - 600	<b>Description</b> 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. <b>Applications</b> Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.	
	NPS [inch]	½ - 2		
	T [°C]	≥ 0 - ≤ +816	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000424">http://shop.ksb.com/catalog/k0/en/product/ES000424</a>	

## ECOLINE PTF 800

	Class	800	<b>Description</b> Lift check valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW), Trim 8 (Stellite/13 % chrome steel), with bolted cover, spring-loaded valve disc, available in carbon steel and alloy steel. <b>Applications</b> Industrial plants, power stations, process engineering, refineries, oil and marine applications; for water, steam, gas, oil and other non-aggressive fluids.	
	NPS [inch]	½ - 2		
	T [°C]	≥ 0 - ≤ +593	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000374">http://shop.ksb.com/catalog/k0/en/product/ES000374</a>	

## SICCA 800-4500 PCF

	Class	800 - 4500	<b>Description</b> 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. <b>Applications</b> Refineries, power stations, general industry and process engineering. For water, steam, oil, gas and non-aggressive fluids. Other fluids on request.	
	NPS [inch]	¼ - 2		
	T [°C]	≥ 0 - ≤ +816	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000481">http://shop.ksb.com/catalog/k0/en/product/ES000481</a>	

## Lift check valves for nuclear applications

### NUCA/-A/-ES, Type V



PN	≤ 410
DN	10 - 50
T [°C]	≥ -29 - ≤ +365

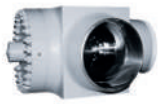
**Description**  
Lift check valve for nuclear applications, with butt weld ends, replaceable seat (NUCA-ES), straight-way pattern, made of steel or stainless steel.

**Applications**  
Feed water and live steam systems.



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

### RJN



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

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

**Applications**  
Feed water and live steam systems.



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

### RYN



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

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

**Applications**  
Feed water and live steam systems.



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

## Swing check valves to DIN/EN

### ECOLINE WT/WTI



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

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

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

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

## STAAL 40 AKK/AKKS



PN 10 - 40  
DN 80 - 400  
T [°C]  $\geq -10 - \leq +450$

### Description

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

### Applications

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



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

## STAAL 100 AKK/AKKS



PN 63 - 100  
DN 80 - 400  
T [°C]  $\geq -10 - \leq +530$

### Description

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

### Applications

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



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

## AKR/AKRS



PN 63 - 160  
DN 80 - 300  
T [°C]  $\geq -10 - \leq +550$

### Description

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

### Applications

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



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

## ZRS



PN  $\leq 600$   
DN 50 - 800  
T [°C]  $\geq -10 - \leq +650$

### Description

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

### Applications

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



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

## SISTO-RSK/RSKS



PN 16  
DN 25 - 300  
T [°C]  $\geq -20 - \leq +140$

### 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

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



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



## SERIE 2000



PN	16/25
Class	150/300
DN	50 - 600
T [°C]	≥ -196 - ≤ +538

**Description**

Dual-plate check valve with single-piece, wafer-type body made of lamellar graphite cast iron, nodular cast iron, steel, 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 [°C]	≥ 0 - ≤ +816

**Description**

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

**Applications**

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



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

## ECOLINE SCF 150-600



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

**Description**

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

**Applications**

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



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

## ECOLINE SCF 800



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

**Description**

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

**Applications**

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



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

## ECOLINE SCV 150-600



Class	150 - 600
NPS [inch]	2 - 12
T [°C]	≥ -29 - ≤ +593

**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 fluids on request.



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

## SICCA 150-600 SCC



Class  
NPS [inch]  
T [°C]

150 - 600  
2 - 24  
≥ 0 - ≤ +593

### Description

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

### Applications

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

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



## SICCA 900-3600 SCC



Class  
NPS [inch]  
T [°C]

900 - 3600  
2 - 28  
≥ 0 - ≤ +650

### Description

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

### Applications

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

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



## Swing check valves for nuclear applications

### SISTO-RSKNA



PN  
DN  
T [°C]

16  
25 - 300  
≥ -20 - ≤ +100

### Description

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

### Applications

Waste water systems, pump systems.

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



### ZRN



PN  
DN  
T [°C]

≤ 320  
50 - 600  
≥ -29 - ≤ +365

### Description

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

### Applications



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

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





## Tilting disc check valves to DIN/EN

### COBRA-TDC01/03



	PN	10/16/25	<b>Description</b> 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.  <b>Applications</b> Water supply systems	
	DN	100 - 1000		
	T [°C]	≥ -10 - ≤ +70	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000830">http://shop.ksb.com/catalog/k0/en/product/ES000830</a>	

## Strainers to DIN/EN



### BOA-S

	PN	6/16/25	<b>Description</b> Strainer to DIN/EN with flanged ends, with standard or fine screen; all nominal sizes with drain plug in the cover. Made of grey cast iron or nodular cast iron.  <b>Applications</b> 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.	
	DN	15 - 400		
	T [°C]	≥ -10 - ≤ +350	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000401">http://shop.ksb.com/catalog/k0/en/product/ES000401</a>	

### NORI 40 FSL/FSS

	PN	25/40	<b>Description</b> Strainer to DIN/EN with flanged ends (FSL) or butt weld ends (FSS), made of cast steel, with standard or fine screen; all nominal sizes with drain plug in the cover, optional magnetic insert.  <b>Applications</b> Heat transfer systems, industrial plants, building services and shipbuilding. For thermal oils, water, steam, gas and other non-aggressive fluids. Other fluids on request.	
	DN	15 - 300		
	T [°C]	≥ -10 - ≤ +450	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000523">http://shop.ksb.com/catalog/k0/en/product/ES000523</a>	

### BOACHEM-FSA

	PN	10 - 40	<b>Description</b> 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.  <b>Applications</b> Process engineering, industry, building services, food and beverage industries, for aggressive fluids. Other fluids on request.	
	DN	15 - 400		
	T [°C]	≥ -10 - ≤ +400	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000402">http://shop.ksb.com/catalog/k0/en/product/ES000402</a>	

## Strainers to ANSI/ASME

### ECOLINE FYC 150-600



Class 150 - 600  
NPS [inch] 2 - 12  
T [°C]  $\geq 0 - \leq +816$

**Description**

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

**Applications**

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



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

### ECOLINE FYF 800



Class 800  
NPS [inch] ½ - 2  
T [°C]  $\geq 0 - \leq +816$

**Description**

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

**Applications**

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



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

## Centred-disc butterfly valves

### BOAX-CBV13



PN 10/16  
DN 50 - 1200  
T [°C]  $\geq -10 - \leq +70$

**Description**

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

**Applications**

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



m, e, p

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

### BOAX-S/SF



PN 6/10/16  
DN 20 - 600  
T [°C]  $\geq -10 - \leq +130$

**Description**

Centred-disc butterfly valve, with heat barrier and elastomer liner (EPDM XU or Nitrile K), with lever, manual gearbox or electric actuator (BOAXMAT-S and BOAXMAT-SF models); semi-lug body (T2) or full-lug body (T4) for downstream dismantling and dead-end service. Valve disc made of stainless steel 1.4308, connections to EN.

**Applications**

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



m, e, p + AMTROBOX/AMTRONIC/SMARTRONIC

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

## BOAX-B



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

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

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

m, e, p + AMTROBOX/AMTRONIC/SMARTRONIC

<http://shop.ksb.com/catalog/k0/en/product/E5000573>

## ISORIA 10/16



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



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

<http://shop.ksb.com/catalog/k0/en/product/E5000377>

## ISORIA 20/25



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



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

<http://shop.ksb.com/catalog/k0/en/product/E5000379>

## ISORIA 20 UL



PN	16
DN	40 - 700
T [°C]	≥ -10 - ≤ +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 or JIS. Underwriter Laboratories (UL) approved.

**Applications**  
Fire protection



m

<http://shop.ksb.com/catalog/k0/en/product/E5000379>

## MAMMOUTH



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

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




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



m, e, p + AMTROBOX/AMTRONIC/SMARTRONIC



<http://shop.ksb.com/catalog/k0/en/product/E5000382>

## KE




	PN	10	<b>Description</b> Centred-disc butterfly valve with PFA liner. With lever, manual gearbox, pneumatic or electric actuator. With wafer-type body (T1), full-lug body (T4) or U-section body with raised faces (T6). EN, ASME, JIS connections possible.	
	DN	40 - 600		
	T [°C]	≥ -20 - ≤ +200	<b>Applications</b> In the chemical industry, highly corrosive fluids: toxic and highly corrosive fluids which cannot be handled by metals or elastomers, thus requiring the sole use of PFA. Moderately corrosive and aggressive fluids allowing the use of a PFA liner with a stainless steel valve disc. Fluids requiring absolutely safe handling.	
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000380">http://shop.ksb.com/catalog/k0/en/product/ES000380</a>	

## Double-offset butterfly valves




## APORIS-DEB02

	PN	10/16/25	<b>Description</b> 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.
	DN	150 - 2200	
	T [°C]	≥ -10 - ≤ +80	<b>Applications</b> Shut-off or control duties; drinking water, seawater, air, water engineering.
			

## DANAİS 150

	PN	≤ 25	<b>Description</b> 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 with counterflange. Connections to EN, ASME, JIS. Fire-safe design tested and certified to API 607. Fugitive emissions performance tested and certified to EN ISO 15848-1. ATEX-compliant version in accordance with Directive 2014/34/EU.	
	Class	150		
	DN	50 - 1200		
	T [°C]	≥ -50 - ≤ +260		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000427">http://shop.ksb.com/catalog/k0/en/product/ES000427</a>	

## DANAİS MTII

	PN	25/50	<b>Description</b> 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.	
	Class	150/300		
	DN	50 - 600		
	T [°C]	≥ -50 - ≤ +260		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000381">http://shop.ksb.com/catalog/k0/en/product/ES000381</a>	



## DANAÏS TBTII



PN	10/20
Class	150
DN	50 - 1200
T [°C]	≥ -196 - ≤ +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.



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

<http://shop.ksb.com/catalog/k0/en/product/E5000815>

## Triple-offset butterfly valves

## TRIODIS 150



PN	≤ 20
Class	150
DN	50 - 1500
T [°C]	≥ -196 - ≤ +450

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

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



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

<http://shop.ksb.com/catalog/k0/en/product/E5000816>

## TRIODIS 300



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

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

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



m, p + AMTROBOX/AMTRONIC/SMARTRONIC

<http://shop.ksb.com/catalog/k0/en/product/E5000817>

## TRIODIS 600



PN	≤ 100
Class	600
DN	150 - 1000
T [°C]	≥ -196 - ≤ +450

**Description**  
Triple-offset butterfly valve, metal-seated (fire-safe), without gland packing, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of steel or stainless steel, full-lug body (T4), flanged body (T7) with flat or raised faces. Body types T4 and T7 are suitable for dead-end service. Connections to EN, ASME or JIS (other connections on request). Fugitive emissions performance tested and certified to EN ISO 15848-1. Certified to German TA Luft Technical Guidelines on Air Quality Control. Fire-safe design tested and certified to BS 6775-2. ATEX-compliant in accordance with Directive 2014/34/EU. In compliance with NACE MR0175 / ISO 15156 and MR 0103.

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



m, p + AMTROBOX/AMTRONIC/SMARTRONIC

<http://shop.ksb.com/catalog/k0/en/product/E5000818>

## Butterfly valves for nuclear applications

### CLOSSIA



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

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

**Applications**  
In the containment of nuclear power stations.

m, e, p

## Combined butterfly/check valve

### DUALIS



DN	500 - 1400
T [°C]	≥ -10 - ≤ +65

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

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



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

## Single-piece ball valves

### MP-CI/MP-II



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

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

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

m, p + AMTROBOX/AMTRONIC

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

### PROFIN-VT1



PN	40
DN	8 - 50
T [°C]	≥ -40 - ≤ +150

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

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

m

## Two-piece ball valves

### ECOLINE BLT 150-300



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

**Description**

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

**Applications**

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



m, e, p

<http://shop.ksb.com/catalog/k0/en/product/E5000795>

### PROFIN-VT2



PN	40
DN	8 - 80
T [°C]	≥ -40 - ≤ +150

**Description**

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

**Applications**

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

m

## Three-piece ball valves

### ECOLINE BLC 1000



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

**Description**

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

**Applications**

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



m, p

<http://shop.ksb.com/catalog/k0/en/product/E5000794>

### PROFIN-S13



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

**Description**

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

**Applications**

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

m, p

## PROFIN-VT3



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

**Description**

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

**Applications**

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

## Soft-seated diaphragm valves to DIN/EN

## SISTO-KB



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

**Description**

Diaphragm valve to DIN/EN with flanged ends; shut-off and sealing to atmosphere by diaphragm; hydraulically favourable 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**

Building services, industry, 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/ES000314>

## SISTO-10



PN	10
DN	15 - 300
T [°C]	≥ -20 - ≤ +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**

Industrial plants, chemical engineering, process engineering, for service water, air, oil, abrasive and aggressive fluids.


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

## SISTO-10M



PN	10
DN	15 - 80
T [°C]	≥ -10 - ≤ +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**

Industrial plants, chemical engineering, process engineering, for service water, air, oil, abrasive and aggressive fluids.


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

## SISTO-16



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

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



m, e, p

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

## SISTO-16S



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

**Description**  
Diaphragm valve to DIN/EN with flanged ends, short face-to-face length; 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**

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



m, e, p

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

## SISTO-16RGA



PN	16
DN	15 - 80
T [°C]	≥ -10 - ≤ +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 [°C]	≥ -10 - ≤ +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 the latest German Environment Agency guideline; shut-off and sealing to atmosphere by completely enclosed and spiral-supported SISTOMaXX diaphragm; position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

**Applications**

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



m, e, p

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

## SISTO-20



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




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



m, e, p




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

## SISTO-C




	PN	16	<b>Description</b> Diaphragm valve with butt weld ends or clamps; 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, position indicator. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.	
	DN	6 - 200		
	T [°C]	≥ -20 - ≤ +160	<b>Applications</b> Biotechnology, pharmaceutical industry, sterile processes, food and beverage industry.	
 m, p		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000320">http://shop.ksb.com/catalog/k0/en/product/ES000320</a>		

## Diaphragm valves for nuclear applications

## SISTO-20NA




	PN	20	<b>Description</b> Diaphragm valve with butt weld ends, for nuclear applications, 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.	
	DN	8 - 150		
	T [°C]	≥ -20 - ≤ +100	<b>Applications</b> Cleaning systems, condensate and cooling water systems, waste water systems, auxiliary systems.	
 m, e, p		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000840">http://shop.ksb.com/catalog/k0/en/product/ES000840</a>		

## SISTO-DrainNA

	PN	16	<b>Description</b> Diaphragm valve with butt weld ends, for nuclear applications; shut-off and sealing to atmosphere by completely enclosed diaphragm. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.	
	DN	15 - 25		
	T [°C]	≥ -20 - ≤ +100	<b>Applications</b> Heating systems, air-conditioning systems, auxiliary systems.	
 m		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000841">http://shop.ksb.com/catalog/k0/en/product/ES000841</a>		

## Feed water bypass valves

## ZJSVM/RJSVM

	PN	≤ 600	<b>Description</b> 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.	
	DN	100 - 800		
	T [°C]	≥ -10 - ≤ +450	<b>Applications</b> Industrial plants, power stations, process engineering and shipbuilding. For water and steam. Other non-aggressive fluids such as gas or oil on request.	
 m, e, p				



## Expansion and anti-vibration joints

### ECOLINE GE1/GE2/GE3



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

**Description**

Expansion joint to DIN/EN with flanged or threaded ends, made of EPDM elastomer or NBR, flanges made of nickel-coated carbon steel.

**Applications**

Irrigation, domestic water supply, air-conditioning systems, cooling circuits, food and beverage industry, water treatment, water supply.

### ECOLINE GE4



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

**Description**



Anti-vibration joint to DIN/EN, body made of EPDM, flanges to EN standards.

**Applications**



Irrigation, domestic water supply, air-conditioning systems, cooling circuits, food and beverage industry, water treatment, water supply.

## Levers

### CR/CM



	T [°C]                    ≥ -20 - ≤ +80	<b>Description</b> Lever made of ductile cast iron. CR type series: locks in 10 positions (open, closed and 8 evenly spaced intermediate positions). CM type series: same as CR, with special coating.	
		<b>Applications</b> All applications in building services, water engineering, energy engineering, and industry.	
		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000501">http://shop.ksb.com/catalog/k0/en/product/ES000501</a>	

### S/SR/SP



	T [°C]                    ≥ -20 - ≤ +80	<b>Description</b> Lever made of light metal alloy; S type series: locks in limit positions (open and closed), SR type series: locks in 9 positions (open, closed and 7 evenly spaced intermediate positions), SP type series: locks in any position.	
		<b>Applications</b> All applications in water engineering, energy engineering, and industry.	
		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000501">http://shop.ksb.com/catalog/k0/en/product/ES000501</a>	

## Manual gearboxes

### MN



	Output torque [Nm]                    ≤ 250 Enclosure                                    IP67 T [°C]                                         ≥ -20 - ≤ +80	<b>Description</b> Manual actuator for operating quarter-turn valves. MN range manual gearbox, irreversible worm gear, handwheel-operated.	
		<b>Applications</b> Building services, general industrial applications, water and industrial processes in non-corrosive and non-saline environments.	
		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000503">http://shop.ksb.com/catalog/k0/en/product/ES000503</a>	

### MR



	Output torque [Nm]                    ≤ 16000 Enclosure                                    IP67/IP68 T [°C]                                         ≥ -20 - ≤ +80	<b>Description</b> 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 box, low-temperature version, etc.	
		<b>Applications</b> Building services, industry and process engineering, water management, waste water management, energy, petroleum and natural gas, mining, dredgers and shipbuilding.	
<span style="color: red;">●</span> AMTROBOX		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000504">http://shop.ksb.com/catalog/k0/en/product/ES000504</a>	

## Electric actuators



### ACTELEC (BERNARD CONTROLS)

	Quarter-turn actuator	AQ1L - SQ120	<b>Description</b> Electric actuators by BERNARD CONTROLS for direct mounting on quarter-turn valves (actuator flange to ISO 5211) 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.	
	Multi-turn actuator	31 - 800		
Enclosure		IP67	<b>Applications</b> All applications in water engineering, energy and industrial engineering.	
Output torque [Nm]		≤ 8000		
T [°C]		≥ -20 - ≤ +80	<a href="http://shop.ksb.com/catalog/k0/en/product/ES000407">http://shop.ksb.com/catalog/k0/en/product/ES000407</a>	

### ACTELEC (AUMA)



	Quarter-turn actuator	SQ 05.2 - SQ 12	<b>Description</b> Electric actuators by AUMA for direct mounting on quarter-turn valves (actuator flange to ISO 5211) 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.	
	Multi-turn actuator	31 - 1600		
Enclosure		IP67	<b>Applications</b> All applications in water engineering, energy and industrial engineering.	
Output torque [Nm]		≤ 16000		
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000407">http://shop.ksb.com/catalog/k0/en/product/ES000407</a>	

### SISTO-LAE

	Type	AUMA	<b>Description</b> 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.	
	Multi-turn actuator	IP67		
Enclosure		≤ 250	<b>Applications</b> Building services, industry, power stations, food industry, chemical industry.	
Output torque [Nm]				
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000405">http://shop.ksb.com/catalog/k0/en/product/ES000405</a>	



## Hydraulic actuators

### HQ



	Output torque [Nm]	≤ 55000	<b>Description</b> Single-acting or double-acting hydraulic actuator (gas cartridge or spring) for mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 160 bar. Mounts on valves with square or flat shaft end. Force transmission via rack-and-pinion or scotch-yoke kinematics provides output torques of up to 55,000 Nm which are ideal for actuating quarter-turn valves. Equipped with a visual position indicator and adjustable travel stops for open/closed position as standard. Optional manual override. Can be equipped with a hydraulic power unit: for shut-off, as a safety block, ESD block, as a bypass device enabling manual override. Can be combined with all limit switch boxes of the AMTROBOX/AMTROBOX R type series.	
	Enclosure	IP68		
T [°C]		≥ -45 - ≤ +100	<b>Applications</b> Marine	
			<a href="http://shop.ksb.com/catalog/k0/en/product/ES000924">http://shop.ksb.com/catalog/k0/en/product/ES000924</a>	

## Pneumatic actuators



### ACTAIR NG

	Output torque [Nm] at a control pressure of 6 bar Enclosure T [°C]	$\leq 8000$  IP68 $\geq -50 - \leq +150$	<p><b>Description</b>          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 valves with square or flat shaft 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, depending on the actuator size, adjustable travel stops for open/closed position or closed position as standard. Optional separate or integrated manual override. Suitable for mounting control unit type series AMTROBOX, AMTRONIC, SMARTRONIC or any other device with an interface to VDI/VDE 3845.</p> <p><b>Applications</b>          All applications in water engineering, energy and industrial engineering.</p>	
<span style="color: red;">●</span> AMTROBOX, AMTRONIC, SMARTRONIC		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000411">http://shop.ksb.com/catalog/k0/en/product/ES000411</a>		



### DYNACTAIR NG

	Output torque [Nm] at a control pressure of 6 bar Enclosure T [°C]	$\leq 4000$  IP68 $\geq -50 - \leq +150$	<p><b>Description</b>          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 valves with square or flat shaft 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, depending on the actuator size, adjustable travel stops for open/closed position or closed position as standard. Optional separate or integrated manual override. Suitable for mounting control unit type series AMTROBOX, AMTRONIC, SMARTRONIC or any other device with an interface to VDI/VDE 3845.</p> <p><b>Applications</b>          All applications in water engineering, energy and industrial engineering.</p>	
<span style="color: red;">●</span> AMTROBOX, AMTRONIC, SMARTRONIC		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000412">http://shop.ksb.com/catalog/k0/en/product/ES000412</a>		

### SISTO-LAD

	Control air pressure [bar] Closing force [N]	$\leq 6$ $\leq 20000$	<p><b>Description</b>          Diaphragm actuator in compact design for mounting on valves with a linear stem movement (globe valves, diaphragm valves and gate valves). Available in single-acting spring-to-close or spring-to-open design, or double-acting air-to-open/air-to-close design; suitable for mounting limit switches or positioners to suit customer requirements, factory-mounted. Settings are adjusted during factory test run.</p> <p><b>Applications</b>          Building services, industry, power stations; suitable for abrasive and aggressive products such as service water, waste water, acids, alkaline solutions, sludges and suspensions.</p>	
		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000805">http://shop.ksb.com/catalog/k0/en/product/ES000805</a>		

### SISTO-LAP

	Control air pressure [bar] Closing force [N]	5,5 - 10 $\leq 250000$	<p><b>Description</b>          Piston actuator in heavy-duty design for mounting on valves with a linear stem movement (globe valves, diaphragm valves and gate valves). Actuator flange to DIN/ISO 5210. Available in single-acting spring-to-close or spring-to-open design, or double-acting air-to-open/air-to-close design; suitable for mounting limit switches or positioners to suit customer requirements, factory-mounted. Settings are adjusted during factory test run.</p> <p><b>Applications</b>          Building services, industry, power stations, food and beverage industries, and chemical industry. The pneumatic actuators can also be used in potentially explosive atmospheres.</p>	
		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000409">http://shop.ksb.com/catalog/k0/en/product/ES000409</a>		

## SISTO-C LAP



Control air pressure [bar] 5,5 - 7  
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 beverage industry.

<http://shop.ksb.com/catalog/k0/en/product/E5000320>

## Actuator accessories

## RMD





Enclosure IP65  
T [°C] ≥ -20 - ≤ +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 engineering, energy engineering, and industry.

## Monitoring



### AMTROBOX

	Enclosure T [°C]	IP67 ≥ -20 - ≤ +80	<p><b>Description</b> 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.</p> <p><b>Applications</b> All applications in water engineering, building services and energy engineering.</p>	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000463">http://shop.ksb.com/catalog/k0/en/product/ES000463</a>				



### AMTROBOX EEx ia

	Enclosure T [°C]	IP67 ≥ -10 - ≤ +50	<p><b>Description</b> 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.</p> <p><b>Applications</b> All applications in water engineering, building services and energy engineering.</p>	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000463">http://shop.ksb.com/catalog/k0/en/product/ES000463</a>				



### AMTROBOX ATEX Zone 22

	Enclosure T [°C]	IP67 ≥ -10 - ≤ +60	<p><b>Description</b> 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).</p> <p><b>Applications</b> All applications in water engineering, building services and energy engineering.</p>	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000463">http://shop.ksb.com/catalog/k0/en/product/ES000463</a>				

### AMTROBOX F



	Enclosure T [°C]	IP67 ≥ -25 - ≤ +70	<p><b>Description</b> Limit switch box specially designed for levers and all actuators with ISO 5211 interface for signalling open or closed position via proximity sensors. It can be used with type series S or C levers and ACTAIR NG/ DYNACTAIR NG pneumatic actuators. Thanks to its particularly low height (&lt; 5 mm), it can be mounted between any valve and actuator with ISO 5211 interface.</p> <p><b>Applications</b> All applications in water engineering, building services and energy engineering.</p>	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000463">http://shop.ksb.com/catalog/k0/en/product/ES000463</a>				

### AMTROBOX M



	Enclosure T [°C]	IP65 ≥ -20 - ≤ +80	<p><b>Description</b> 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).</p> <p><b>Applications</b> All applications in water engineering, building services and energy engineering.</p>	
<a href="http://shop.ksb.com/catalog/k0/en/product/ES000463">http://shop.ksb.com/catalog/k0/en/product/ES000463</a>				





## AMTROBOX R

	Enclosure	IP68	<b>Description</b> 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.	
	T [°C]	≥ -45 - ≤ +80		
			<a href="http://shop.ksb.com/catalog/k0/en/product/E5000463">http://shop.ksb.com/catalog/k0/en/product/E5000463</a>	

## AMTROBOX R EEx ia



	Enclosure	IP68	<b>Description</b> Sturdy and multi-functional. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX R EEx ia (R1188): intrinsically safe version for potentially explosive atmospheres (Zones 0 + 21).	
	T [°C]	≥ -25 - ≤ +80		
			<a href="http://shop.ksb.com/catalog/k0/en/product/E5000463">http://shop.ksb.com/catalog/k0/en/product/E5000463</a>	

## AMTROBOX R Ex d



	Enclosure	IP68	<b>Description</b> 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.	
	T [°C]	≥ -25 - ≤ +70		
			<a href="http://shop.ksb.com/catalog/k0/en/product/E5000463">http://shop.ksb.com/catalog/k0/en/product/E5000463</a>	

## ON/OFF valve controllers

### AMTRONIC



	Enclosure	IP67	<b>Description</b> 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.	
	Control air pressure [bar] T [°C]	3 - 8 ≥ -20 - ≤ +80		
			<a href="http://shop.ksb.com/catalog/k0/en/product/E5000462">http://shop.ksb.com/catalog/k0/en/product/E5000462</a>	

## AMTRONIC Ex ia



	<p>Enclosure IP67 Control air pressure [bar] 3 - 8 T [°C] <math>\geq -10 - \leq +50</math></p>	<p><b>Description</b> 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. The intrinsically safe AMTRONIC Ex ia can be operated in potentially explosive atmospheres. It complies with Directive 2014/34/EU and is marked in accordance with CE 0081 Ex II 1 G. Type of protection Ex ia IIC T6 Ga in accordance with EN 60079-0 and EN 60079-11.</p> <p><b>Applications</b> All applications in water engineering, energy engineering, and industry.</p>	
		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000462">http://shop.ksb.com/catalog/k0/en/product/ES000462</a>	

## Positioners

### SMARTRONIC MA

	<p>Enclosure IP67 Control air pressure [bar] 2 - 7 T [°C] <math>\geq -20 - \leq +80</math></p>	<p><b>Description</b> 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.</p> <p><b>Applications</b> All applications in water engineering, energy engineering, and industry.</p>	
		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000461">http://shop.ksb.com/catalog/k0/en/product/ES000461</a>	

### SMARTRONIC AS-i

	<p>Enclosure IP67 Control air pressure [bar] 3 - 8 T [°C] <math>\geq -20 - \leq +80</math></p>	<p><b>Description</b> 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.</p> <p><b>Applications</b> All applications in water engineering, energy engineering, and industry.</p>	
		<a href="http://shop.ksb.com/catalog/k0/en/product/ES000874">http://shop.ksb.com/catalog/k0/en/product/ES000874</a>	

## Intelligent positioners

### SMARTRONIC PC



Enclosure IP67  
 Control air pressure [bar] 3 - 8  
 T [°C]  $\geq -20 - \leq +80$

#### 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 and DYNACTAIR NG actuators with no need for a bracket or external piping, providing a rugged, compact overall solution. SMARTRONIC PC offers four functions: programmable characteristic 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 engineering, energy engineering, and industry.



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

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