

Product Portfolio 2018



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ECOLINE GTC 150-600	37	SISTO-LAP	62	
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Our tradition:

Competence since 1871

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

Partners achieve more together.

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

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



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

We assist our customers right through the product life cycle

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

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

- Technical consultancy
- Installation and commissioning
- Services provided on-site and in our service centres
- Inspection and maintenance

- Maintenance inspection management
- Framework agreements such as TPM® Total Pump Management
- Efficiency analysis with SES System Efficiency Service or Pump Operation Check
- Reverse engineering
- Inventory management
- Retrofitting as an alternative to buying a new product
- Spare parts in manufacturer's quality
- On-site training sessions
- Refurbishment and decommissioning

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



Our mission:

Certified quality assurance

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

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

Our five key goals:

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



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 anticorruption.





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



KSB Trademarks

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



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.



Diaphragm valves

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



General Information

Regional products	Not all depicted products are available for sale in every country. Products only available in individual regions are indicated accordingly. Please contact your sales representative for details.
Key to actuators	In the Products section from page 25 the symbol in conjunction with the relevant letter indicates the actuator type(s) available. m = manual (lever, handwheel, etc.) e = electric actuator p = pneumatic actuator h = hydraulic actuator
Trademark rights	All trademarks or company logos shown in the catalogue are protected by trademark rights owned by KSB SE & Co. KGaA and/or a KSB Group company. The absence of the "®" symbol should not be interpreted to mean that the term is not a registered trademark.

Valves

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

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

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

Actuators

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

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

Automation

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

		BOA-SuperCompact	BOA-Compact	BOA-Compact EKB	BOA-W		ВОА-Н	BOA-H/HE/HV/HEV	NORI 40 ZXLBV/ZXSBV	NORI 40 ZXLB/ZXSB	NORI 40 ZYLB/ZYSB	BOACHEM-ZXAB		ECOLINE GLB 150-600	ECOLINE GLB 800		NORI 40 ZXL/ZXS	NORI 40 ZXLF/ZXSF	NORI 160 ZXL/ZXS	NORI 160 ZXLF/ZXSF	NORI 320 ZXSV	NORI 500 ZXSV	BOACHEM-ZXA	ECOLINE VA 16		SICCA 150-600 GLC	SICCA 900-2500 GLC	SICCA 800-4500 GLF	ECOLINE GLC 150-600	ECOLINE GLF 150-600	ECOLINE GLF 800-2500	ECOLINE GLV 150-300	WADA GL 150			
Abrasive fluids	z					z							Щ	П		g									g									П		
Waste water with faeces	N					N							NS/			packing									Ri										П	
Waste water without faeces													ISI/			pa									pa											
Aggressive fluids	es to					globe valves to DIN/EN							globe valves to ANSI/ASME			gland									pue											
Inorganic fluids	alve			Щ		alve							5 5			9								Ш	g							L		Ш	Ш	<u></u>
Activated sludge	ě			Щ		ě .	_						lves			with								Ш	lith						L	L		Ш	\square	<u></u>
Brackish water	9			Щ		영	_						Va			2								Ш	<u>></u>							L		Ш	\square	<u></u>
Service water	d g					e g							əqc			DIN/EN									S									Ш	Ш	<u></u>
Steam	ate				_	typ					ш	ш				□				Ш				Ш	SIVA			ш						Ш	\square	<u></u>
Distillate	Soft-seated globe valves to DIN/EN			Щ	_	Bellows-type	_						Bellows-type	<u> </u>		Globe valves to	_	_					\square	Ш	Globe valves to ANSI/ASME with gland packing					_	<u></u>	<u> </u>	_	Ш	Ш	<u>—</u>
Explosive fluids	Soft					<u>음</u>	_				ш		vs-t			Ne				Ш				Ш	9						L	L		Ш	\square	<u></u>
Digested sludge				\sqcup	_	ă	_	_	_	_			0	_	_	e Va		_						Ш	ves					_	L	L	_	Ш	\square	<u> </u>
Solids-laden fluids		_			4	-	_						Be	_		go	_								val					_	L	<u> </u>		\square	\sqcup	<u>—</u>
Solids (ore, sand, gravel, ash)		_			4	-	_	_		_	_	_		_		ਰ	_	_	_		_	_	_	Ш	ope						H	<u> </u>		\square	Ш	<u>—</u>
Flammable fluids		_			-	-					Ц	Ц		_			┖			Ш					ਚੁੱ						H	<u> </u>		$\vdash \vdash$	Н	<u> </u>
River, lake and groundwater		-		\vdash	-	-	\dashv	\dashv		\dashv	_	_		<u> </u>	_		<u> </u>	-							-	_				_	H	⊢	_	$\vdash \vdash$	Н	<u></u>
Liquefied gas		-		\vdash	-	-	_	_	_		_			<u> </u>	_		<u> </u>	_	_					Н		_	_		_	-	H	!		$\vdash\vdash$	Н	<u>—</u>
Fluids containing gas		_	H	\vdash	\dashv	-	-	=	-		=			-				-	믬	Н	믬	믬	믬			=	-	븜	H	H	Н		_	$\vdash \vdash$	Н	<u> </u>
Gases Harmful fluids	-	H		\vdash	-	-	4			-	븝			-	_		▝								ŀ		_						-	\vdash	Н	_
Toxic fluids		_		\vdash	-	-					=	H		H	H		H							\vdash							H	┢		\vdash	Н	
High-temperature hot water		_		\vdash	\dashv	-					Ħ	Ħ		H	_									Н	ŀ									$\vdash \vdash$	Н	
Heating water				\vdash	╗	-	7	-	-		_	_		H	-		-	-							-	i	-	Ħ	-		-	-		\vdash	Н	_
Highly aggressive fluids		-	_	\vdash	-1	-	-	\dashv	\dashv	\dashv	\dashv			П			\vdash							\vdash	ŀ	-	_	_			Н		\vdash	\vdash	\vdash	
Condensate					\exists	-					\blacksquare	Ħ		F									Ħ	П	ŀ	П	_	_			Н			\vdash	Н	
Corrosive fluids				\vdash	\exists	-	_	-	-	-	_	Ħ		F			-	_					Ħ	Н		_			_	-	Н			\vdash	Н	
Valuable fluids					\exists	-						_			_								_	\vdash	ŀ						H			\vdash	Н	
Fuels					\exists	-	_	\exists		-	-	-		⊢	-																Н			\Box	М	
Cooling water							\dashv	\neg																П							М			П	П	
Highly volatile fluids				П								П																			П			П	П	
Fire-fighting water				\Box			\dashv								Г									\Box		T		ī			П			\Box	\Box	
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Waste water without faeces					S			<u> </u>														<u>></u>					<u> </u>				ij		\ \			
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Soft-seated globe valves to DIN/EN

BOA-SuperCompact



N	
NC	
min.	[°C]
max.	[°C]

6/10/16 Description:

20 - 200
Solve valve to DIN/EN with wafer-type body, super-compact DN face-to-face length to EN 558/94, slanted seat, bonnetless; with flange alignment holes for centring, dead-end service and downstream dismantling; insulating cap with anticondensation feature as standard, position indicator, locking device, travel stop, soft main and back seat; maintenance-free, full insulation possible.

Applications:

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

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



BOA-Compact



PN	
DN	
T _{min.}	[°C]
T _{max.}	[°C]

6/16 Description:

15 - 200 Globe valve to DIN/EN with flanged ends, short face-to-face length to EN 558/14, slanted seat, bonnetless, EPDM-encapsulated throttling plug, soft main and back seat, position indicator, locking device, travel stop, insulating cap with anticondensation feature; maintenance-free, full insulation possible.



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.

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





BOA-Compact EKB





10/16 Description:

15 - 200 Globe valve to DIN/EN with flanged ends, compact face-to-face length for drinking water supply systems, with electrostatic plastic coating inside and outside, slanted seat, bonnetless, EPDM-encapsulated throttling plug, position indicator, locking device, travel stop, soft main and back seat; maintenance-free (PN 10 DVGW-

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.

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





BOA-W



PN	
DN	
T _{min.}	[°C]
T _{max.}	[°C]

6/16 Description

15 - 200 ≤ -10 ≤ -10 ≤ +120 Globe valve to DIN/EN with flanged ends, standard face-to-face length to EN 558/1, slanted seat, bonnetless, EPDM-encapsulated throttling plug, soft main and back seat, position indicator, locking device, travel stop, insulating cap with anticondensation 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.



Bellows-type globe valves to DIN/EN

BOA-H



T_{min.} [°C]

16/25 Description:

15 - 350 Bellows-type globe valve to DIN/EN with flanged ends, with shut-off valve disc or throttling plug, standard position indicator with colour coding for identification of ≥ -10 valve design, replaceable valve disc; bellows protected when valve is in fully open ≤ +350 position; seat/disc interface made of wear and corrosion resistant chrome steel or



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.

BOA-H/HE/HV/HEV



DN

25/40 Description: 10 - 350

≥ -10

< +450

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



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



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

NORI 40 ZXLBV/ZXSBV



PN DN T_{min.} [°C] 25/40 Description:

Bellows-type globe valve to DIN/EN with flanged, butt weld or socket weld ends, 10 - 200 tapered shut-off valve disc or throttling plug, two-piece stem, integrated position ≥ -10 indicator, seat/disc interface made of wear and corrosion resistant chrome steel or < +450 chrome nickel steel.



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



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

NORI 40 ZXLB/ZXSB



DN T_{min.} [°C]

25/40 Description:

Bellows-type globe valve to DIN/EN with flanged, butt weld or socket weld ends, 10 - 200 tapered shut-off valve disc or throttling plug, two-piece stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant chrome steel or ≤ +450 chrome nickel steel.



Applications:

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

NORI 40 ZYLB/ZYSB



PΝ DN T_{min.} [°C]

25/40 Description:

Bellows-type globe valve to DIN/EN with flanged or butt weld ends, Y-valve, 15 - 300 replaceable throttling plug (up to DN 100) or shut-off valve disc (DN 125 and above), single-piece non-rotating stem, position indicator, travel stop, locking < +450 device; seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.



Applications:

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

BOACHEM-ZXAB



 $T_{min.} \left[^{\circ}C \right]$ T_{max.} [°C]

≤ +400

15 - 400 Bellows-type globe valve to DIN/EN with flanged ends, body made of stainless steel, with replaceable on/off disc or throttling plug. ≥ -10

Applications:

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



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

Bellows-type globe valves to ANSI/ASME

ECOLINE GLB 150-600



NPS [inch] $T_{min.}$ [°C] T_{max.} [°C]

150 - 600 Description:

2 - 12 Globe valve to ANSI/ASME with flanged ends, cast steel/stainless steel body, trim ≥ 0 and bellows made of stainless steel, with bolted bonnet, outside screw and yoke, sealed by graphite gland packing and metal bellows, stainless steel/graphite ≤ +427 gaskets

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

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

ECOLINE GLB 800



Class NPS [inch] $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ $T_{max.}$ [°C]

150 - 800 Description:

 $\frac{1}{2}$ Globe valve to ANSI/ASME, with threaded sockets (NPT) or socket weld ends (SW), ≥ 0 forged steel/stainless steel body, trim and bellows made of stainless steel, outside screw and yoke, sealed by graphite gland packing and metal bellows, stainless ≤ +427



steel/graphite gaskets.

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



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

Globe valves to DIN/EN with gland packing

NORI 40 ZXL/ZXS



DN $T_{min.}$ [°C] T_{max.} [°C]

10 - 400 Globe valve to DIN/EN with flanged, butt weld or socket weld ends, with gland packing, with shut-off valve disc or throttling plug, rotating stem, seat/disc ≥ -10 interface made of wear and corrosion resistant chrome steel or chrome nickel

≤ +450 steel.

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



NORI 40 ZXLF/ZXSF



T_{min.} [°C] T_{max} [°C]

25/40 Description:

Globe valve to DIN/EN with flanged, butt weld or socket weld ends, with gland 10 - 200 packing, with shut-off valve disc or throttling plug, non-rotating stem, integrated ≥ -10 position indicator, seat/disc interface made of wear and corrosion resistant chrome ≤ +450 steel or chrome nickel steel.



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

NORI 160 ZXL/ZXS



ΡN DN $T_{min.}$ [°C] T_{max} [°C]

63 - 160 Description:

10 - 200 Globe valve to DIN/EN with flanged, butt weld or socket weld ends, with gland packing, with shut-off valve disc or throttling plug, rotating stem, seat/disc ≥ -10 interface made of wear and corrosion resistant 17 % chrome steel or Stellite. ≤ +550

Applications:

Applications:

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



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

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

NORI 160 ZXLF/ZXSF



ΡN $T_{min.}$ [°C] T_{max.} [°C] 63 - 160 Description:

10 - 200 Globe valve to DIN/EN with flanged, butt weld or socket weld ends, with gland ≥ -10 packing, with shut-off valve disc or throttling plug, non-rotating stem, integrated position indicator, seat/disc interface made of wear and corrosion resistant ≤ +550 17 % chrome steel or Stellite.



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



e. m, p

e, m, p

NORI 320 ZXSV



PN DN T_{min.} [°C] T_{max.} [°C] 250 - 320 Description:

10 - 50 Globe valve to DIN/EN with flanged, butt weld or socket weld ends, gland packing, throttling plug, non-rotating stem, bayonet-type body/yoke joint, integrated position indicator, seat/disc interface made of Stellite. ≤ +580



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



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

NORI 500 ZXSV



PΝ DN $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ T_{max.} [°C]

≥ -10

250 - 500 Description: 10 - 65 Globe valve to DIN/EN with butt weld or socket weld ends, gland packing, throttling plug, non-rotating stem, bayonet-type body/yoke joint, integrated position indicator, seat/disc interface made of Stellite.



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



e. m. p

BOACHEM-ZXA



DN $T_{min.}$ [°C] T_{max.} [°C]

15 - 400 Globe valve to DIN/EN with flanged ends, body made of stainless steel, with gland packing, rotating stem, with on/off disc or throttling plug. ≥ -10

≤ +400

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



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

ECOLINE VA 16



PN DN $T_{min.}$ [°C] $T_{max.}$ [°C] 16 Description:

15 - 250 Globe valve to DIN/EN with flanged ends, body made of cast iron, with gland

packing, rotating stem, with shut-off valve disc or throttling plug. ≥ -10

Applications: ≤ +300

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



e, m

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

Globe valves to ANSI/ASME with gland packing

ECOLINE GLC 150-600



NPS [inch] $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ $T_{max.}$ [°C]

150 - 600 Description:

2 - 12 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 ≥ 0 Class 600, with bolted bonnet, outside screw and yoke, graphite gland packing, ≤ +816

stainless steel/graphite gaskets.

Applications:

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



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

ECOLINE GLF 150-600



NPS [inch] $T_{min.}$ [°C] T_{max.} [°C]

150 - 600 Description:

1/2 - 2 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 ≥ 0

gland packing, stainless steel/graphite gaskets, reduced bore. ≤ +816



Applications:

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

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

ECOLINE GLF 800-2500



NPS [inch] $\mathsf{T}_{\mathsf{min.}} \, [^{\circ}\mathsf{C}]$ T_{max.} [°C]

800 - 2500

≤ +538

1/2 - 2

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 > 0 (Class 800) or welded bonnet (Class 1500 and 2500), outside screw and yoke, graphite gland packing, stainless steel/graphite gaskets, available in carbon steel



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



ECOLINE GLV 150-300



NPS [inch] $T_{min.}$ [°C] T_{max.} [°C]

150 - 300 Description:

Globe valve to ANSI/ASME with flanged ends, cast steel A351 CF8/CF8M, Trim 2 1/2 - 12 (304/304) and Trim 10 (316/316) for Class 150/300, with bolted bonnet, outside ≥ 0 screw and yoke, integral seat, graphite gland packing, stainless steel/graphite ≤ +816 gaskets



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



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

SICCA 150-600 GLC



NPS [inch] $T_{min.}$ [°C] $T_{\text{max.}}$ [°C]

150 - 600 Description:

2 - 10 Globe valve to ANSI/ASME with flanged or butt weld ends, bolted bonnet, outside screw and yoke. Rotating, rising stem, seat/disc interface made of 13 % chrome steel, Stellite hard-faced; with graphite gasket and gland packing, available in ≤ +593 carbon steel, low-alloy steel and stainless steel.



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



e, m

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

SICCA 900-2500 GLC



NPS [inch] $T_{min.}$ [°C] T_{max.} [°C]

≤ +650

900 - 2500 Description:

2 - 8 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.



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



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

SICCA 800-4500 GLF



Class NPS [inch] $T_{min.}$ [°C] T_{max.} [°C]

800 - 4500 Description:

> 0

1/4 - 2 Globe valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, bolted bonnet (Class 800) or welded bonnet (Class 1500/2500/4500), outside screw and yoke, Stellite hard-faced body seat, disc seating face made of Stellite hard-faced 13 % chrome steel, with graphite gasket and gland packing. Available in carbon steel and alloy steel.



Applications:

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

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



WADA GL 150

Class NPS [inch] $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ $T_{max.}$ [°C]

150 Description:

≥ -196 ≤ +100

1/2 - 12 Globe valve to ANSI/ASME with flanged, butt weld or socket weld ends, made of cast steel A351 CF3M/CF8/CF8M, bolted bonnet, outside screw and yoke, Stellite hard-faced valve disc and back seat, with graphite or PTFE gland packing, stainless steel/graphite gaskets.



Applications:

Natural gas liquefaction and other liquefied gases.

e. m. p. h

Valves

Globe valves for nuclear applications

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



PN DN $T_{min.} \, [^{\circ}C]$ $T_{\text{max.}}$ [°C]

≤ 320 Description:

10 - 50 Globe valve for nuclear applications, with butt weld or socket weld ends, gland packing or bellows, replaceable seat (NUCA-ES), straight-way pattern, made of ≥ -29 steel, stainless steel or nickel.

≤ +365 Applications:

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



e, m, p

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

ZXNB



DN $T_{min.} \left[^{\circ}C \right]$ $T_{\text{max.}}$ [°C]

≤ 210 Description:

≥ -29 ≤ +365

65 - 300 Bellows-type globe valve for nuclear applications, with butt weld ends, designed to meet safety-related requirements, in straight-way or angle pattern, or as twoway valve, made of steel or stainless steel.

Applications:

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



e, m, p

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

ZXNVB



PN DN $T_{min.}$ [°C] $\mathsf{T}_{\mathsf{max.}} \ [^{\circ}\mathsf{C}]$ ≤ 210 Description:

4 - 25 Globe valve for nuclear applications, with butt weld or socket weld ends, gland packing or bellows, straight-way pattern, made of steel or stainless steel. ≥ -29

Applications: ≤ +365

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



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

ZYNB/ZYN



PN DN $\mathsf{T}_{\mathsf{min.}} \, [^{\circ}\mathsf{C}]$ $T_{max.}$ [°C]

≤ 62 Description:

300 - 400 Globe valve for nuclear applications, with butt weld ends, designed to meet safetyrelated requirements, with gland packing or bellows, Y-valve, made of cast

≥ -29 stainless steel. ≤ +365

Applications:

Residual heat removal systems in nuclear applications



Automated globe valves to DIN/EN

BOA-H Mat E



PN DN $T_{\text{min.}} \, [^{\circ}C]$ $T_{max.}$ [°C] 16/25 Description:

20 - 150 Automated globe valve to DIN/EN with flanged ends, with electric actuators and 3point actuation, actuating forces from 2000 N to 14,000 N, stem sealed by ≥ -10 maintenance-free PTFE V-packing (up to 250 °C) or graphite gland packing (up to ≤ +350

Applications:

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

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



BOA-H Mat P



DN $T_{\text{min.}} \, [^{\circ}C]$ T_{max.} [°C]

16/25 Description:

20 - 150 Automated globe valve to DIN/EN with flanged ends, with pneumatic actuators in spring-to-open or spring-to-close design on option, actuating forces from 1500 N $\,$ ≥ -10 to 26,000 N, stem sealed by maintenance-free PTFE V-packing (up to 250 °C) or ≤ +350 graphite gland packing (up to 350 °C).

Applications:

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



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

Control valves to DIN/EN

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



 $T_{min.}$ [°C]

6/10/16 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 droptight at Kvs values between 6.3 and 700 m³/h and closing pressures of up to 16 bar. With intelligent microprocessor-controlled and pre-set electric actuators providing actuating forces from 1000 N to 14,000 N; electronic configuration of flow characteristic, Kvs value, control signal and actuating time using PC tool or manual parameterisation unit. Customised configuration can be implemented at the KSB factory on request.



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

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

BOA-CVE H



PN $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ T_{max.} [°C] 16/25/40 Description:

Service-friendly control valve to DIN/EN with flanged ends, either with linear or equal-percentage control characteristic at Kvs values of 0.1 to 630 m³/h and closing pressures of up to 40 bar; all internal parts are easy to replace without special tools, including the reversible seat; noise level reduced by standard two-stage pressure reduction combining a parabolic plug and multi-hole cage; with electric



Applications:

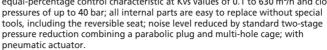
General industrial facilities, process engineering, plant engineering, cooling circuits, heating systems.

BOA-CVP H



DN $T_{min.}$ [°C] T_{max.} [°C] 16/25/40 Description:

15 - 200 Service-friendly control valve to DIN/EN with flanged ends, either with linear or equal-percentage control characteristic at Kvs values of 0.1 to 630 m³/h and closing ≥ -10 pressures of up to 40 bar; all internal parts are easy to replace without special





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

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



33

Balancing and shut-off valves to DIN/EN

BOA-Control/BOA-Control IMS



ΡN DN T_{min.} [°C] T_{max.} [°C]

16 Description: 15 - 350

≥ -10

BOA-Control IMS:

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

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

Applications:

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

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



BOA-Control SAR



DN $T_{min.}$ [°C] T_{max.} [°C] 16 Description:

10 - 50 Balancing valve to DIN/EN with female screwed ends; differential pressure measurement for flow metering with PFM 2000 measuring computer; digital travel ≥ -25

position indicator with 40 settings, locking device and travel stop, maintenance-≤ +150

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



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

Level control valves to DIN/EN

CONDA-VLC



PN DN $T_{min.}$ [°C] T_{max.} [°C] 16 Description:

25 - 300 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.

< +70 **Applications**:

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



Pressure reducing valves to DIN/EN

CONDA-VRC



PN	
DN	
T _{min.}	[°C]
$T_{max.}$	[°C]

16/25/40/63 Description:

15 - 150 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. ≤ +70

Applications:

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



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

Pressure sustaining valves to DIN/EN

CONDA-VSM



PN	
DN	
T _{min.}	
T _{max.}	[°C]

16/25/40 Description:

50 - 150 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.

In water supply systems for controlling upstream pressure, in irrigation or firefighting systems, industry and building services.



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

Air valves to DIN/EN

BOAVENT-AVF



PN	
DN	
T _{min.}	[°C]
T _{max.}	[°C]

50 - 300 Automatic air valve with two floats and three functions. Flanged ends, body made ≥ -10 of nodular cast iron, double-chamber design with ABS floats. The air valve ensures proper operation of the piping system, allowing the entry and discharge of large ≤ +120

volumes of air and release of air pockets in working conditions.



Applications:

Water supply system, clean water, irrigation.

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

BOAVENT-SIF



PN	
DN	
T _{min.}	[°C]
T _{max.}	[°C]

16 Description:

25 - 200 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 ≤ +70 of the piping system, allowing the entry and discharge of large volumes of air and release of air pockets in working conditions.



Water supply system, clean water, irrigation.



Valves

BOAVENT-SVA



PN DN T_{min.} [°C] T_{max.} [°C] 16 Description

50 - 200 Automatic air valve with one float and three functions. With flanged or threaded ends, body made of nodular cast iron, single-chamber design with polypropylene float. The air valve ensures proper operation of the piping system, allowing the

float. The air valve ensures proper operation of the piping system, allowing the entry and discharge of large volumes of air and release of air pockets in working conditions.

Applications:

Water supply, waste water, untreated waste water.

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

BOAVENT-SVF



PN DN T_{min.} [°C] T_{max.} [°C]

16/25/40 Description:

25 - 300 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 appropriate postation of the piping system allowing the option.

the 16-40) or carbon steel (PN 64), single-chamber design with polypropylene fit. The air valve ensures proper operation of the piping system, allowing the entry and discharge of large volumes of air and release of air pockets in working conditions.

Applications:

Water supply system, clean water, irrigation.

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



SISTO-VentNA



PN DN T_{min.} [°C] T_{max.} [°C]

16 Description:

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

≥ -20 Applications:

≤ +100 Heating systems, air-conditioning systems.



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

SISTO-KRVNA



PN DN T_{min.} [°C] T_{max.} [°C] 16 Description:

25 - 100 Vent valve for nuclear applications, with flanged or butt weld ends, soft-seated,

≥ -20 with floating ball.

≤ +100 Applications:

Tank venting, drainage systems.



Gate valves to DIN/EN

COBRA-SGP/SGO/SGF



DN $T_{min.}$ [°C] $T_{max.}$ [°C] 16/25 Description:

25 - 600 Gate valve to DIN/EN with flanged ends, elastomer-coated wedge, bolted bonnet, ≥ -10 rotating stem, inside screw, body made of nodular cast iron.

Applications: ≤ +70

Water supply and treatment systems, air-conditioning systems.



e, m

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

COBRA-SMP



DN $T_{\text{min.}} \, [^{\circ}C]$ T_{max.} [°C]

16 Description:

40 - 300 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. ≤ +110

Applications:

Water supply systems, heating systems, air-conditioning systems, general industry, building services.



ECOLINE SP/SO



PN DN $\mathsf{T}_{\mathsf{min.}} \, [^{\circ}\mathsf{C}]$ $T_{max.}$ [°C]

10/16/25 Description:

≤ +110

40 - 600 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. ≥ -10

Applications:

Water supply systems, heating systems, air-conditioning systems, general industry, water engineering, building services.



e, m

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

ECOLINE GT 40





PN DN $T_{min.}$ [°C] $T_{max.}$ [°C] 10 - 40 Description:

Gate valve to DIN/EN with flanged ends or butt weld ends, bolted bonnet, body 50 - 800 made of cast steel, non-rotating stem, with flexible wedge, seat/disc interface ≥ -10 made of wear and corrosion resistant 13 % chrome steel or Stellite.

≤ +400 Applications:

In industrial plants, 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/ES000676

STAAL 40 AKD/AKDS





PΝ DN $T_{min.}$ [°C] $T_{\text{max.}}$ [°C]

≥ -10

≤ +450

50 - 600 Gate valve to DIN/EN with flanged or butt weld ends, bolted bonnet, body of forged or welded steel construction, non-rotating stem, split wedge with flexibly mounted discs for precise alignment with the body seats. Seat/disc interface made of wear and corrosion resistant 17 % chrome steel.



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



STAAL 100 AKD/AKDS



ΡN DN $T_{min.} \left[^{\circ}C \right]$ T_{max.} [°C] 63 - 100 Description:

Gate valve to DIN/EN with flanged or butt weld ends, bolted bonnet, body of 50 - 500 forged or welded steel construction, non-rotating stem, split wedge with flexibly ≥ -10 mounted discs for precise alignment with the body seats. Seat/disc interface made

of wear and corrosion resistant 17 % chrome steel or Stellite.

Applications:

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



37

e, m, p

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

AKG-A/AKGS-A



ΡN DN $T_{min.}$ [°C] T_{max.} [°C] 63 - 160 Description:

80 - 300 Gate valve to DIN/EN with flanged or butt weld ends, pressure seal design, body of forged or welded construction, non-rotating stem, split wedge with flexibly ≥ -10 mounted discs for precise alignment with the body seats. Seat/disc interface made

≤ +550 of wear and corrosion resistant 17 % chrome steel or Stellite.

Applications

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



e, m, p

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

ZTS



PΝ Class DN NPS [inch] $T_{min.}$ [°C] $T_{\text{max.}} \ [^{\circ}C]$

≤ 600 Description:

Gate valve to DIN/EN or ANSI/ASME, with butt weld ends, pressure seal design, 4500 billet-forged body, seat/disc interface made of wear and corrosion resistant 50 - 800 Stellite, split wedge with flexibly mounted discs for precise alignment with the 2 - 32 body seats.

≥ -10 Applications: ≤ +650

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



Gate valves to ANSI/ASME

ECOLINE GTB 800



Class NPS [inch] $T_{min.}$ [°C] T_{max.} [°C]

150-800 Description:

1/2 - 2 Gate valve to ANSI/ASME, with threaded sockets (NPT) or socket weld ends (SW), forged steel/stainless steel body, trim and bellows made of stainless steel, with ≥ 0 bolted bonnet, outside screw and yoke, sealed by graphite gland packing and

metal bellows, stainless steel/graphite gaskets.

Applications:

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



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

ECOLINE GTC 150-600



Class NPS [inch] $T_{min.}$ [°C] T_{max.} [°C]

150 - 600 Description:

2 - 36

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 > 0 Class 600, with bolted bonnet, outside screw and yoke, non-rotating stem, flexible wedge, graphite gland packing, stainless steel/graphite gaskets.



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



ECOLINE GTF 150-600



Class NPS [inch] $T_{min.}$ [°C] T_{max.} [°C]

150 - 600 Description: 1/2 - 2

≤ +816

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-≥ 0 rotating stem, single-piece wedge, graphite gland packing, stainless steel/graphite gaskets, reduced bore.



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



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

ECOLINE GTF 800-2500



Class NPS [inch] $T_{min.}$ [°C] $T_{\text{max.}}$ [°C]

800 - 2500 Description:

1/2 - 2 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 > 0 (Class 800) or welded bonnet (Class 1500 and 2500), outside screw and yoke, single-≤ +538 piece wedge, graphite gland packing, stainless steel/graphite gaskets, available in carbon steel and alloy steel.



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

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



e, m

ECOLINE GTV 150-300



NPS [inch] $T_{min.}$ [°C] T_{max.} [°C]

≤ +816

150 - 300 Description:

 $\frac{1}{2}$ - 12 Gate valve to ANSI/ASME with flanged ends, cast steel A351 CF8/CF8M, Trim 2 \geq 0 (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.



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



e. m

SICCA 150-600 GTC



Class NPS [inch] $T_{min.}$ [°C] T_{max.} [°C]

150 - 600 Description:

2 - 24 Gate valve to ANSI/ASME with flanged or butt weld ends, bolted bonnet, outside screw and yoke, flexible wedge, non-rotating rising stem and non-rising handwheel, seat/disc interface made of 13 % chrome steel, Stellite hard-faced; > 0 ≤ +593 with graphite gasket and gland packing, available in carbon steel, low-alloy steel



and stainless steel. Applications:

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

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

SICCA 900-3600 GTC



Class NPS [inch] $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ $T_{max.}$ [°C]

≥ 0

≤ +650

900 - 3600 Description:

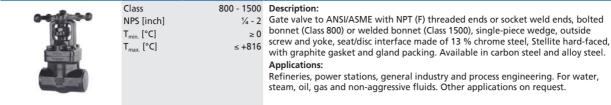
2 - 28 Gate valve to ANSI/ASME with butt weld ends, pressure seal design, split-wedge design, outside screw and yoke, rising stem and non-rising handwheel, Stellite hard-faced seat/disc interface and back seat, with graphite gasket and gland packing. Available in carbon steel and alloy steel.



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



SICCA 800-1500 GTF





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

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

WADA GT 150



Class NPS [inch] $T_{min.}$ [°C] $T_{max.}$ [$^{\circ}C$]

1 - 12 Gate valve to ANSI/ASME with flanged, butt weld or socket weld ends, made of cast steel A351 CF3M/CF8/CF8M, bolted bonnet, outside screw and yoke, flexible ≥ -196 wedge, graphite or PTFE gland packing, stainless steel/graphite gaskets.

Natural gas liquefaction and other liquefied gases.



http://shop.ksb.com/catalog/k0/en/product/ES000888 e, m, p, h

≤ +100

Gate valves for nuclear applications

ZTN



PN DN $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ T_{max.} [°C]

80 - 700 Gate valve for nuclear applications, with butt weld ends, bolted or pressure seal bonnet, forged or welded body, non-rotating stem, in split-wedge or parallel-disc ≥ -29 design, made of steel or stainless steel.

≤ +365

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



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

Body pressure relief valves

UGS



DN

≥ 40 Description:

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

Applications:

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



Knife gate valves to DIN/EN

HERA-BD



DN $T_{min.}$ [°C] $T_{max.}$ [°C] 10 Description:

50 - 1200 Knife gate valve to DIN/EN with wafer-type single-piece or two-piece body made of grey cast iron, bi-directional, with gland packing, non-rising stem, corrosion-≥ -10 protected by epoxy coating. ≤ +120

Applications:

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



e, m, p

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

Knife gate valves to ANSI/ASME

HERA-BDS

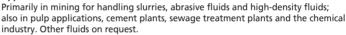




150 Description:

≥ -10 ≤ +120

50 - 600 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





e, m, p

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

HERA-BHT



Class DN $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ T_{max.} [°C] ≥ -10

≤ +100

150 Description:

80 - 600 Knife gate valve to ANSI/ASME, semi-lug body made of carbon steel or stainless steel, two-piece body, bi-directional, with gland packing, through-going blade, rising stem, non-rising handwheel, robust yoke for actuator mounting as standard.

Applications:

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



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

HERA-SH

e, m, p





Class $\mathsf{T}_{\mathsf{min.}}\,[^{\circ}\mathsf{C}]$ $T_{\text{max.}} \, [^{\circ}C]$

≥ -10 ≤ +180

50 - 1000 Knife gate valve to ANSI/ASME with full-lug body made of carbon steel or stainless steel, single-piece body, uni-directional, with gland packing, rising stem, non-rising handwheel.

Applications:

In industrial and waste water engineering, pulp and paper industry, food and beverages industry, chemical industry. For water, waste water and solids-laden fluids. Other fluids on request.



Lift check valves to DIN/EN

BOA-RPL



PN DN $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ $T_{max.}$ [°C]

25 - 400 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 ≥ -10 or horizontal pipes. ≤ +70

Applications:

Water supply and treatment systems, waste water.



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

BOA-RFV



ΡN DN $T_{min.}$ [°C] $T_{\text{max.}}$ [°C] 10/16/25/40/63 Description:

40 - 600 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, ≥ -10 seat made of stainless steel. Suitable for installation in horizontal and vertical ≤ +90 pipes. Rapid closure without surge pressures.

Applications:

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



BOA-RVK



PΝ DN T_{min.} [°C] T_{max.} [°C]

6/10/16 Description:

< +250

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

Applications:

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

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



BOA-R



PN DN $T_{min.}$ [°C] T_{max.} [°C]

6/16 Description:

15 - 350 Lift check valve to DIN/EN with flanged ends, spring-loaded valve disc,

maintenance-free. ≥ -10

 $\leq +350$

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



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

NORI 40 RXL/RXS



 $T_{min.}$ [°C]

25/40 Description:

≥ -10

10 - 300 Lift check valve to DIN/EN, with flanged, butt weld or socket weld ends, check disc with closing spring, seat/disc interface made of wear and corrosion resistant chrome steel or chrome nickel steel.

≤ +450

Applications:

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



NORI 160 RXL/RXS



T_{min.} [°C]

63 - 160 Description:

10 - 200 Lift check valve to DIN/EN, with flanged, butt weld or socket weld ends, check disc with closing spring, seat/disc interface made of wear and corrosion resistant ≥ -10 17 % chrome steel or Stellite. ≤ +550

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



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

RGS



DN $T_{\text{min.}} \, [^{\circ}C]$ $T_{\text{max.}}$ [°C]

250 - 500 Description:

10 - 50 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. ≥ -10

≤ +580

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



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

BOACHEM-RXA



DN $T_{\text{min.}} \, [^{\circ}C]$ T_{max.} [°C]

≥ -10

10 - 40 Description:

15 - 400 Lift check valve to DIN/EN with flanged ends, body made of stainless steel, check disc with closing spring, lapped seat/disc interface.

≤ +400

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



Lift check valves to ANSI/ASME

ECOLINE PTF 150-600



Class NPS [inch] T_{min.} [°C] $T_{\text{max.}}$ [°C]

150 - 600 Description:

Lift check valve to ANSI/ASME with flanged ends, forged steel A105. Trim 8 1/2 - 2 (Stellite/13 % chrome steel), reduced bore, with bolted cover, spring-loaded valve ≥ 0 disc.

≤ +816 Applications:

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



ECOLINE PTF 800-2500



Class NPS [inch] $T_{min.}$ [°C] T_{max.} [°C]

800 - 2500 Description:

 $\frac{1}{2}$ - 2 Lift check valve to ANSI/ASME with threaded sockets (NPT), butt weld ends (BW) or socket weld ends (SW), Trim 8 (Stellite/13 % chrome steel), with bolted cover (Class 800) or welded cover (Class 1500 and 2500), spring-loaded valve disc, available in ≤ +538 carbon steel and alloy steel.



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



SICCA 800-4500 PCF



NPS [inch] $T_{min.} \, [^{\circ}C]$ T_{max.} [°C]

800 - 4500 Description:

1/4 - 2 Lift check valve to ANSI/ASME with NPT (F) threaded ends or socket weld ends, with spring-loaded valve disc, bolted cover (Class 800) or welded cover

(Class 1500/2500/4500), Stellite hard-faced body seat, disc seating face made of Stellite hard-faced 13 % chrome steel, with graphite gasket. Available in carbon steel and alloy steel.

Applications:

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

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



WADA SC 150



Class NPS [inch] $T_{\text{min.}} \, [^{\circ}C]$ $T_{\text{max.}}$ [°C]

150 Description:

½ - 18 Swing check valve / lift check valve to ANSI/ASME with flanged, butt weld or socket ≥ -196 weld ends, made of cast steel A351 CF3M/CF8/CF8M, bolted cover, dash-pot

≥ -196

function, graphite or stainless steel/graphite gaskets. ≤ +100

Applications:

Natural gas liquefaction and other liquefied gases.



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

Lift check valves for nuclear applications

NUCA/-A/-ES, Type V



DN $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ $T_{max.}$ [°C]

≤ 410 Description:

10 - 50 Lift check valve for nuclear applications, with butt weld ends, replaceable seat

≥ -29 (NUCA-ES), straight-way pattern, made of steel or stainless steel.

Applications: ≤ +365

Feed water and live steam systems.



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

RJN



PN DN $T_{min.} \, [^{\circ}C]$ $T_{\text{max.}}$ [°C]

< 140 Description:

80 - 600 Damped lift check valve for nuclear applications, with butt weld ends, individually selectable damping characteristic, made of steel or stainless steel. ≥ -29

Applications: ≤ +300

Feed water and live steam systems.



RYN



DN T_{min.} [°C] T_{max.} [°C]

65 - 300 Combined lift check/shut-off valve for nuclear applications, with butt weld ends, Ypattern, with gland packing or bellows, made of steel or stainless steel. ≥ -29

Applications: ≤ +365

Feed water and live steam systems.



Swing check valves to DIN/EN

COBRA-SCBS



PN DN $T_{\text{min.}} \, [^{\circ}C]$ $T_{max.}$ [°C] 16 Description:

50 - 300 Swing check valve to British standards, with flanged ends, metal-seated, body and valve disc made of nodular cast iron, with bolted cover, stainless steel/graphite ≥ -10 gaskets. ≤ +300

Applications:

Water supply, treatment and distribution systems, waste water, irrigation, drinking water, seawater, air, gas, oil.



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

ECOLINE WT/WTI



DN $T_{min.}$ [°C] T_{max.} [°C]

16 Description:

50 - 300 Swing check valve to DIN/EN with wafer-type body; body and valve disc made of ≥ -10 carbon steel (WT) or stainless steel (WTI), O-ring made of Viton.

Applications: ≤ +110

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



STAAL 40 AKK/AKKS





DN T_{max.} [°C] 10 - 40 Description:

80 - 400 Swing check valve to DIN/EN with flanged or butt weld ends, bolted cover, internally mounted hinge pin, body of welded steel construction, seat/disc ≥ -10 interface made of wear and corrosion resistant 17 % chrome steel. < **+450**

Applications:

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



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

STAAL 100 AKK/AKKS





DN

63 - 100 Description: 80 - 400

Swing check valve to DIN/EN with flanged or butt weld ends, bolted cover, internally mounted hinge pin, body of forged or welded steel construction, seat/ ≥ -10 disc interface made of wear and corrosion resistant 17 % chrome steel or Stellite.

Applications:

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



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

AKR/AKRS



ΡN DN $T_{min.}$ [°C] T_{max.} [°C] 63 - 160 Description: 80 - 300

≥ -10

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

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



ZRS



PN DN $T_{min.} \left[^{\circ}C \right]$ T_{max.} [°C] 50 - 800

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 ≥ -10 corrosion resistant Stellite. ≤ +650

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



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

SISTO-RSK/RSKS



DN $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ T_{max.} [°C]

16 Description:

25 - 300 Swing check valve to DIN/EN with flanged ends, body with or without lining, softseated, no dead volumes, straight-way pattern, full bore, slanted seat, static > -20 sealing to atmosphere; with soft rubber encapsulated pre-loaded valve disc ≤ +140

featuring short travel to closure. Applications:

In building services, industrial plants and power stations; suitable for drinking water, service water, from fluids handled in the food and beverages industry to abrasive and aggressive products in chemical and process engineering.

http://shop.ksb.com/catalog/k0/en/product/ES00039



SERIE 2000



PN Class DN T_{min.} [°C] T_{max.} [°C]

150/300

16/25 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 50 - 600 alloy, metal/elastomer-seated or metal/metal-seated, maintenance-free, ≥ -196 connections to EN, ASME or JIS. ≤ +538

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 NPS [inch] $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ $T_{max.}$ [°C]

150 - 600 Description:

2 - 24 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/ ≤ +816 graphite gaskets.

Applications:

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



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

ECOLINE SCF 150-600



NPS [inch] T_{min.} [°C] T_{max.} [°C]

150 - 600

Description: $\frac{1}{2}$ - 2

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 ≥ 0

≤ +816 Applications:

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



ECOLINE SCF 800-2500



NPS [inch] $T_{min.}$ [°C] T_{max.} [°C]

800 - 2500 Description:

1/2 - 2 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 > 0 ≤ +538

(Class 800) or welded cover (Class 1500 and 2500), internally mounted hinge pin, available in carbon steel and alloy steel.

Applications:

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



ECOLINE SCV 150-300



Class NPS [inch] $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ $T_{\text{max.}}$ [°C]

150 - 300 Description:

1/2 - 12 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, ≥ 0 integral seat, stainless steel/graphite gaskets. ≤ +816

Applications:

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



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

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

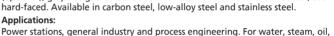
SICCA 150-600 SCC



Class NPS [inch] $T_{min.}$ [°C] T_{max.} [°C]

150 - 600 Description:

2 - 24 Swing check valve to ANSI/ASME with flanged or butt weld ends, bolted cover, internally mounted hinge pin. Bigger sizes with anti-slam/dash pot arrangement ≥ 0 (optional), graphite gasket. Seat/disc interface made of 13 % chrome steel, Stellite ≤ +593





gas and non-aggressive fluids. Other applications on request.

SICCA 900-3600 SCC



Class NPS [inch] T_{min.} [°C] T_{max.} [°C]

900 - 3600 Description:

2 - 28 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 ≥ 0 gasket. Available in carbon steel and alloy steel. ≤ +650

Applications:

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



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

WADA SC 150



Class NPS [inch] T_{min.} [°C] T_{max.} [°C]

150 Description: 1/2 - 18

≥ -196

≤ +100

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

Applications:

Natural gas liquefaction and other liquefied gases.



Swing check valves for nuclear applications

SISTO-RSKNA



N ON		
	[°C]	



25 - 300 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

≤ +100 travel to closure.

Applications:

Waste water systems, pump systems.



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

ZRN



PN DN	
$T_{min.}$ [°C] $T_{max.}$ [°C]	

< 320 Description:

≥ -29

50 - 600 Swing check valve for nuclear applications, with butt weld ends, bolted cover, internally mounted hinge pin, forged body made of steel or stainless steel.

Applications: ≤ +365

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	
DN	
T _{min.}	[°C]
T _{max.}	[°C]

10/16/25 Description:

100 - 2200

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.

≤ +70

Applications:

Water supply systems



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

Strainers to DIN/EN

BOA-S



DN $T_{min.}$ [°C] $T_{\text{max.}} \, [^{\circ}C]$

6/16/25 Description:

15 - 400 Strainer to DIN/EN with flanged ends, with standard or fine screen; all nominal ≥ -10 sizes with drain plug in the cover.

Applications: ≤ +350

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.



NORI 40 FSL/FSS



PN	
DN	
T _{min.}	[°C]
$T_{max.}$	[°C]

15 - 300 Strainer to DIN/EN with flanged or butt weld ends, body made of cast steel, with ≥ -10 standard or fine screen; all nominal sizes with drain plug in the cover, optional magnetic inserts. ≤ +450



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



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

BOACHEM-FSA



DN $T_{\text{min.}} \, [^{\circ}C]$ T_{max.} [°C]

10 - 40 Description:

15 - 400 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. ≥ -10

Applications: ≤ +400

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



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

Strainers to ANSI/ASME

ECOLINE FYC 150-600



Class NPS [inch] $T_{min.}$ [°C] T_{max.} [°C]

150 - 600 Description:

2 - 12 Strainer to ANSI/ASME with flanged ends, Y-pattern, bolted cover, cast steel ≥ 0 A216 WCB, screen made of stainless steel 304, mesh width 1.5 mm.

≤ +816 Applications:

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



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

ECOLINE FYF 800



Class NPS [inch] $T_{min.}$ [°C] T_{max.} [°C]

800 Description:

½ - 2 Strainer to ANSI/ASME with threaded sockets (NPT) or socket weld ends (SW), Ypattern, with bolted cover, forged steel A105, screen made of stainless steel 304. ≥ 0 Mesh width 0.8 to 0.9 mm.

≤ +816

Applications:

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



Centred-disc butterfly valves

BOAX-CBV13



ΡN DN $T_{min.} \, [^{\circ}C]$ $T_{max.}$ [°C] 10/16 Description:

50 - 1200 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 ≥ -10 made of stainless steel. ≤ +115

Applications:

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



e, m, p

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

BOAX-S/SF



DN $T_{\text{min.}} \, [^{\circ}C]$ $T_{max.}$ [°C]

6/10/16 Description: 20 - 600 Centred-disc butterfly valve for building services, with heat barrier and elastomer

liner (EPDM XU or Nitrile K), with lever, manual gearbox or electric actuator; semi-≥ -10 lug body (T2) or full-lug body (T4) suitable for downstream dismantling and dead-≤ +130 end service. Valve disc made of stainless steel 1.4308, connections to EN.

Applications:

Heating, ventilation, air-conditioning systems, for drinking water.



e, m, p + AMTROBOX/AMTRONIC/SMARTRONIC

BOAX-S/SF Gaz



PN DN $\mathsf{T}_{\mathsf{min.}} \, [^{\circ}\mathsf{C}]$ $T_{max.}$ [°C] ≤ 10 Description:

20 - 600 Centred-disc butterfly valve for gas lines, with elastomer liner (epichlorohydrin EG), with yellow lever; semi-lug body (T2), full-lug body (T4). Valve disc made of ≥ -20

stainless steel 1.4308, connections to EN. ≤ +60



Gas lines



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

BOAX-B

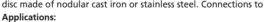


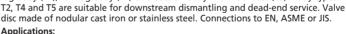
PN DN $T_{min.}$ [°C] $T_{max.}$ [°C] 40 - 1000 ≥ -10

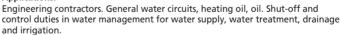
≤ +130

10/16 Description:

Centred-disc butterfly valve, sealed by elastomer liner (EPDM XC or Nitrile K), with lever, manual gearbox, pneumatic or electric actuator; wafer-type body (T1), semilug body (T2), full-lug body (T4) or U-section body with flat faces (T5). Body types









e, m, p + AMTROBOX/AMTRONIC/SMARTRONIC

BOAX-B Gaz



PN DN $T_{min.}$ [°C] T_{max.} [°C] 10/16 Description:

Centred-disc butterfly valve, sealed by elastomer liner (epichlorohydrin EG or 40 - 300 Nitrile K), with lever; semi-lug body (T2) or full-lug body (T4), valve disc made of ≥ -20 nodular cast iron. Connections to EN. < +90

Applications:

Gas pipes to NF ROB.GAZ N°095.00



BOAX-B APSAD



DN $T_{min.}$ [°C] T_{max.} [°C]

≤ 16 Description:

40 - 300 Centred-disc butterfly valve, sealed by elastomer liner (EPDM XC), with manual gearbox to APSAD; semi-lug body (T2) suitable for downstream dismantling, valve ≥ -10 disc made of nodular cast iron. Connections to EN.

≤ +110

Applications:

Fire protection



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

BOAX-B DVGW



PN DN $T_{min.}$ [°C] T_{max.} [°C] 10 Description:

40 - 300 Centred-disc butterfly valve, sealed by elastomer liner (epichlorohydrin), with lever; semi-lug body (T2) or full-lug body (T4), valve disc made of nodular cast iron ≥ -20 or stainless steel. Connections to EN. ≤ +60

Applications:

Gas lines and biogas plants.



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

BOAX-BFM



PN $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ T_{max.} [°C] 16 Description:

40 - 300 Centred-disc butterfly valve, sealed by elastomer liner (EPDM XC), with manual ≥ -10 gearbox to FM; semi-lug body (T2) suitable for downstream dismantling, valve disc made of nodular cast iron or stainless steel. Connections to EN. ≤ +110

Applications:

Fire protection



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

ISORIA 10/16



PN $\mathsf{T}_{\mathsf{min.}} \, [^{\circ}\mathsf{C}]$ T_{max.} [°C]

10/16 Description:

40 - 1000 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 ≥ -10 ≤ +200 and T4 are suitable for downstream dismantling and dead-end service with counterflange. Connections to EN, ASME, JIS.

Applications:

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



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

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

ISORIA 20/25



PN $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ T_{max.} [°C]

20/25 Description:

32 - 1000 Centred-disc butterfly valve, sealed by elastomer liner, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Semi-lug body (T2), full-lug ≥ -10 body (T4) or U-section body with flat faces (T5). Body types T2, T4 and T5 are ≤ +200 suitable for downstream dismantling and dead-end service with counterflange. Connections to EN, ASME, JIS.

Applications:

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



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

ISORIA 20 UL



DN $T_{\text{min.}} \, [^{\circ}C]$ T_{max.} [°C]

Centred-disc butterfly valve, sealed by elastomer liner, with manual gearbox; semilug body (T2), full-lug body (T4). Body types T2 and T4 are suitable for downstream ≥ -10 dismantling and dead-end service with counterflange. Connections to EN, ASME, JIS. Underwriter Laboratories (UL) approved.

Applications:

Fire protection



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

MAMMOUTH



PN DN $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ $T_{max.}$ [°C] 6/10/16/20/25 Description:

1050 - 4000 Centred-disc butterfly valve, sealed by elastomer liner, with manual gearbox, electric, hydraulic or counterweight actuator, U-section body with flat faces (T5), > 0 connections to EN, ASME or JIS. ≤ +80

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.

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

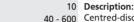








e, m, p + AMTROBOX/AMTRONIC/SMARTRONIC



40 - 600 Centred-disc butterfly valve with PFA liner for the chemical industry. With lever, manual gearbox, pneumatic or electric actuator. With wafer-type body (T1), full-lug body (T4) or U-section body with raised faces (T6). EN, ASME, JIS connections ≥ -20 ≤ **+**200 possible.

Applications:

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



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

Double-offset butterfly valves

APORIS



ΡN DN $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ T_{max.} [°C] 10/16/25 Description:

≤ +85

100 - 2000 ≥ -10

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

Applications:

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



e, m, p

DANAÏS 150



PN	≤ 2
Class	150
DN	50 - 120
T _{min.} [°C]	≥ -5
T _{max.} [°C]	≤ +26

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), Wafertype body (T1), full-lug body (T4), T4 suitable for downstream dismantling and dead-end service. Connections to EN, ASME, JIS.



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

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

PN

Cla

DN

T_{min}

DANAÏS MTII



/5
30
6
5
26

Description:

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



Petroleum, gas, chemical and petrochemical industry, nuclear power stations, onshore and offshore plants. Steam, vacuum and all applications requiring offsetdisc butterfly valves.

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

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

DANAÏS TBTII



PN	10/2
Class	15
DN	50 - 120
T _{min.} [°C]	≥ -5
T _{max.} [°C]	≤ +20

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.



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

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

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

Triple-offset butterfly valves

TRIODIS 150



N	5
lass	
N	50 - 1
_{min.} [°C]	≥ -
max. [°C]	≤ +

150 Triple-offset butterfly valve, metal-seated (fire-safe), without gland packing, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of steel or stainless steel, full-lug body (T4), flanged body (T7) with flat or raised faces, body with butt weld ends (BWSE). Body types T4 and T7 can be used for dead-end service. Connections to EN, ASME or JIS. Connections to ASME: Schedule 10S, 10, STD and XS to NPS for valves with butt weld ends (other connections on request). Certified to German TA-Luft Technical Guidelines on Air Quality Control. Fire-safe design tested and certified to BS 6775-2. ATEX-compliant in accordance with Directive 2014/34/EU. In compliance with NACE MR0175 /



ISO 15156 and MR 0103.

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

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

TRIODIS 300



Class 300 DN 80 - 1200 T_{min.} [°C] T_{max.} [°C] ≤ +450

Triple-offset butterfly valve, metal-seated (fire-safe), without gland packing, maintenance-free, with lever or manual gearbox, pneumatic, electric or hydraulic actuator. Body made of steel or stainless steel, full-lug body (T4), flanged body (T7) with flat or raised faces, body with butt weld ends (BWSE). Body types T4 and T7 can be used for dead-end service. Connections to EN, ASME or JIS. Connections to ASME: Schedule 40S and STD to NPS for valves with butt weld ends (other connections on request). Fugitive emissions performance tested and certified to EN ISO 15848-1. Certified to German TA-Luft Technical Guidelines on Air Quality Control. Fire-safe design tested and certified to BS 6775-2. ATEX-compliant in accordance with Directive 2014/34/EU. In compliance with NACE MR0175 /



Applications:

ISO 15156 and MR 0103.

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

m, p + AMTROBOX/AMTRONIC/SMARTRONIC

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

TRIODIS 600



Class DN 150 - 1000 T_{min.} [°C] T_{max.} [°C] ≤ +450

≤ 100 Description:

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



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

m, p + AMTROBOX/AMTRONIC/SMARTRONIC

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

Butterfly valves for nuclear applications

CLOSSIA



DN T_{min.} [°C] T_{max.} [°C]

≤ +170

≤ 5,5 Description:

250/500/750/1000 Double-offset butterfly valve, metal-seated, maintenance-free. Steel body with ≥ -20 one flanged and one weld end. With safety actuator with manual, pneumatic or



In reactor containment of nuclear power stations.



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

Combined butterfly/check valve

DUALIS



DN $T_{min.}$ [°C] T_{max.} [°C] 500 - 1400

Description: ≥ -10

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

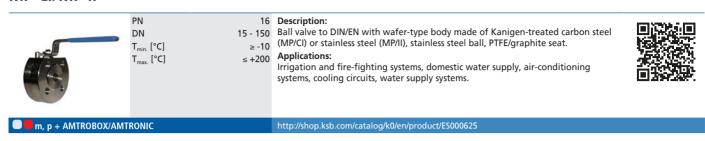
Applications:

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



Single-piece ball valves

MP-CI/MP-II



PROFIN-VT1



Two-piece ball valves

ECOLINE BLT 150-300



PROFIN-VT2L



Three-piece ball valves

ECOLINE BLC 1000



DN $T_{min.}$ [°C] T_{max.} [°C]

1000 WOG Description:

8 - 100 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 ≥ -10

design) ≤ +200

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

m, p

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

PROFIN-SI3FIT/-SI3IT/-SI3LIT



ΡN DN $T_{min.}$ [°C] $T_{max.}$ [°C]

16/40 Description:

15 - 100 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 ≥ -10 design, blowout-proof stem, spring-loaded stem seal, body made of stainless steel. ≤ +150

Applications

In spray irrigation systems, general irrigation systems, fire-fighting systems, airconditioning 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 airconditioning applications. For cleaning agents, condensate, cooling water, corrosive fluids, drinking water, fire-fighting water, lubricants, oil, river water, seawater, groundwater, service water, wash water and solvents.



m, p

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

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



DN $T_{min.}$ [°C] T_{max.} [°C] ≥ -10

Description:

8 - 100 Ball valve to ANSI/ASME with flanged ends, threaded ends (BSP) or long butt weld ends, three-piece body, full bore, solid ball, blowout-proof stem, body made of

≤ +150 Applications:

In spray irrigation systems, general irrigation systems, fire-fighting systems, airconditioning 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 airconditioning 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.



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

Soft-seated diaphragm valves to DIN/EN

SISTO-KB



ΡN DN $T_{min.} \, [^{\circ}C]$ T_{max.} [°C]

Diaphragm valve to DIN/EN with flanged ends; shut-off and sealing to atmosphere by diaphragm; straight-way pattern, body with or without lining, position indicator with integrated stem protection. DN 125 to DN 200 with threaded bush. ≥ -20 All moving parts are separated from the fluid by the diaphragm. Maintenance-



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



e, m, p

SISTO-KBS



PN	10	Description:
DN	15 - 200	Diaphragm valve to DIN/EN with flanged ends, short face-to-face length; shut-off
T _{min.} [°C]	≥ -20 ≤ +140	and sealing to atmosphere by diaphragm; straight-way pattern, body with or without lining, position indicator with integrated stem protection. DN 125 to
T _{max.} [°C]	≤ +140	DN 200 with threaded bush. All moving parts are separated from the fluid by the



e. m. p

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

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

SISTO-10



PN DN $T_{min.}$ [°C] T_{max.} [°C] 10 Description:

Applications:

Diaphragm valve to DIN/EN with flanged ends; shut-off and sealing to atmosphere 15 - 300 by spiral-supported diaphragm (DN 65 and above); body with or without lining, position indicator with integrated stem protection. All moving parts are separated > -20 from the fluid by the diaphragm. Maintenance-free.



Applications:

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

http://shop.ksb.com/catalog/k0/en/product/ES000315 e, m, p

SISTO-10M



ΡN DN $T_{min.}$ [°C] $T_{\text{max.}}$ [°C]

10 Description:

Applications:

15 - 80 Diaphragm valve to DIN/EN with threaded sockets; shut-off and sealing to atmosphere by spiral-supported diaphragm (DN 65 and above); position indicator ≥ -10 with integrated stem protection. All moving parts are separated from the fluid by ≤ +140 the diaphragm. Maintenance-free.

In industrial and chemical plants, in process engineering. Suitable for service water,



e, m, p

air, oil, abrasive and aggressive fluids.

SISTO-16



ΡN DN T_{min.} [°C] T_{max.} [°C]

16 Description:

15 - 200 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. ≥ -10



Applications:

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

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

SISTO-16S

e, m, p



PN DN $T_{min.}$ [°C] $T_{\text{max.}}$ [°C]

≥ -20

≤ +160

15 - 200 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-



Applications:

In building services, industrial plants and power stations; suitable for drinking water, service water, air, oil, technical gases; from fluids handled in the food and beverages industry to abrasive and aggressive products in chemical and process

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

e, m, p

SISTO-16RGA



PN DN $T_{\text{min.}} \, [^{\circ}C]$ T_{max.} [°C]

16 Description:

15 - 80 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



ΡN DN $T_{min.}\left[^{\circ}C\right]$ T_{max.} [°C] 16 Description:

Diaphragm valve to DIN/EN with flanged ends, for drinking water installations to 15 - 200 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 > -10 ≤ +140

and sealing to atmosphere by completely enclosed diaphragm; position indicator with integrated stem protection. All moving parts are separated from the fluid by the diaphragm. Maintenance-free.

Applications:

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

e, m, p

SISTO-20



DN $T_{min.}\left[^{\circ}C\right]$ T_{max.} [°C] 16 Description:

15 - 200 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 ≤ +160 from the fluid by the diaphragm. Maintenance-free.

Applications:

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

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



SISTO-C

e, m, p



PN DN $T_{min.}$ [°C] T_{max.} [°C]

Diaphragm valve with butt weld ends or clamps; in straight-way, Y or T pattern, or 6 - 100 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, ≥ -20 visual position indicator. All moving parts are separated from the fluid by the

Applications:

diaphragm. Maintenance-free.

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



m, p

Diaphragm valves for nuclear applications

SISTO-20NA



DN $T_{\text{min.}} \, [^{\circ}C]$ T_{max.} [°C]

20 Description:

8 - 150 Diaphragm valve for nuclear applications, with butt weld ends; shut-off and sealing to atmosphere by completely enclosed spiral-supported diaphragm. All ≥ -20 moving parts are separated from the fluid by the diaphragm. Maintenance-free. ≤ +100

Applications:

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



e, m, p

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

SISTO-DrainNA



DN $T_{\text{min.}} \left[^{\circ}C \right]$ T_{max.} [°C]

16 Description:

15 - 25 Diaphragm valve for nuclear applications, with butt weld ends; shut-off and sealing to atmosphere by completely enclosed spiral-supported diaphragm. All moving parts are separated from the fluid by the diaphragm. Maintenance-free. ≤ +100

Applications:

Heating systems, air-conditioning systems, auxiliary systems.



Feed water bypass valves

ZJSVM/RJSVM



DN $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ T_{max.} [°C] 100 - 800 ≥ -10 ≤ +450

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

Applications:

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

Expansion and anti-vibration joints

ECOLINE GE1/GE2/GE3



DN $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ T_{max.} [°C] 16 Description:

15 - 300 Expansion joint to DIN/EN with flanged or threaded ends, made of EPDM ≥ -10 elastomer or NBR, flanges made of nickel-coated carbon steel.

≤ +105

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



ECOLINE GE4



PN DN T_{min.} [°C] T_{max.} [°C]

16 Description:
20 - 200 Anti-vibration joint to DIN/EN, body made of EPDM, flanges to EN standards.

≥ -10 Applications:

s+100 Irrigation, domestic water supply, air-conditioning systems, cooling circuits, food and beverages industry, water treatment, water supply.



59

Levers

CR/CM



 $T_{min.}$ [°C] T_{max.} [°C] ≥ -20 Description:

≤ +80 Lever made of ductile cast iron. CR type series: locks in 10 positions (open, closed and 8 evenly spaced intermediate positions) and CM type series: same as CR, with special coating.

Applications:

All applications in building services, water, energy and industrial engineering.



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

S/SR/SP



 $T_{min.}$ [°C] T_{max.} [°C]

≥ -20 Description:

Lever made of light metal alloy; type series S: locks in limit positions (open and closed), type series SR: locks in 9 positions (open, closed and 7 evenly spaced intermediate positions), type series SP: locks in any position.

Applications:

All applications in water, energy and industrial engineering.



Manual gearboxes

MN



Output torque [Nm] Enclosure $T_{\text{min.}} \, [^{\circ}C]$ T_{max.} [°C]

≤ 250 Description:

Manual actuator for operating quarter-turn valves. MN range IP67 manual gearbox, irreversible worm gear kinematics, handwheel-≥ -20

operated. < +80

Applications:

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



MR



Output torque [Nm] **Enclosure** T_{min.} [°C]

T_{max.} [°C]

≤ 16000 Description:

IP67/IP68 Heavy-duty manual actuator for operating quarter-turn valves. MR range manual gearbox, irreversible worm gear or patented AMRI yoke kinematics. Handwheel-operated as standard. Models MR 400 to 1600 can be fitted with actuators. Options include alternative operating mechanisms, limit switch boxes, low-temperature version,



etc.

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

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



AMTROBOX

Electric actuators

ACTELEC (BERNARD CONTROLS)



Ouarter-turn actuator Multi-turn actuator Enclosure Output torque [Nm]

EZ4 - SQ120 Description:

31 - 800 Electric actuators by BERNARD CONTROLS for direct mounting on quarter-turn valves (actuator flange to ISO 5211) or with a manual IP67 gearbox of the MR type series (actuator flange to ISO 5210). Power < 8000 supply: single-phase AC, three-phase or direct current. Torque switch, travel stop and limit switch box as standard. For on/off or

control duties. Integrated local control or remote control.

Applications:

All applications in water engineering, energy and industrial engineering.

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



ACTELEC (AUMA)



Quarter-turn actuator Multi-turn actuator Enclosure Output torque [Nm]

SQ 05.2 - SQ 12 Description:

31 - 1600 Electric actuators by AUMA for direct mounting on quarter-turn valves (actuator flange to ISO 5211) or with a manual gearbox of the MR type series (actuator flange to ISO 5210). Power supply: single-phase AC, three-phase or direct current. Torque switch, travel stop and limit switch box as standard. For on/off or control duties. Integrated local control or remote control.



All applications in water engineering, energy and industrial engineering.

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



SISTO-LAE



Multi-turn actuator Enclosure Output torque [Nm]

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.

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



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

Hydraulic actuators

HQ

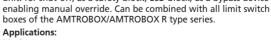


AMTROBOX

Output torque [Nm] Enclosure $T_{min.}$ [°C] T_{max.} [°C]

IP68

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



Marine



Pneumatic actuators

ACTAIR NG



Output torque [Nm] at a control pressure of 6 bar Enclosure $T_{min.}$ [°C]

T_{max.} [°C]

≤ 8000 Description:

≥ -50

Double-acting pneumatic actuator for mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 8 bar. Mounts on valve stems with square end or flat end. Force transmission via scotch-yoke kinematics provides output torques of up to 8000 Nm which are ideal for actuating quarter-turn valves. Equipped with a visual position indicator and adjustable travel stops for closed or closed/open position as standard, depending on the actuator size. Optional separate or integrated manual override. Suitable for mounting control unit type series AMTROBOX, AMTRONIC, SMARTRONIC or any other device with an interface to VDI/VDE 3845.



engineering.
http://shop.ksb.com/catalog/k0/en/product/E5000411

All applications in water engineering, energy and industrial

AMTROBOX, AMTRONIC, SMARTRONIC

DYNACTAIR NG



Output torque [Nm] at a control pressure of 6 bar Enclosure $T_{min.}$ [°C]

≤ 4000 Description:

< +80

Applications:

Single-acting pneumatic actuator for mounting on quarter-turn valves (butterfly valves or ball valves). Actuator flange to ISO 5211. Control pressure up to 8 bar. Mounts on valve stems with square end or flat end. Force transmission via scotch-yoke kinematics provides output torques of up to 4000 Nm which are ideal for actuating quarter-turn valves. Reset to fail-safe position in case of control air failure is effected by means of spring assemblies. Equipped with a visual position indicator and adjustable travel stops for closed or closed/open position as standard, depending on the actuator size. Optional separate or integrated manual override. Suitable for mounting control unit type series AMTROBOX, AMTRONIC, SMARTRONIC or any other device with an interface to VDI/VDE 3845.



Applications:

All applications in water engineering, energy and industrial engineering.

AMTROBOX, AMTRONIC, SMARTRONIC

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

SISTO-LAD



Control air pressure [bar] Closing force [N] ≤ 6 Description:

Diaphragm actuator in compact design for mounting on valves with a linear stem movement (globe, diaphragm and gate valves). Available in single-acting spring-to-close or spring-to-open design, or double-acting air-to-open/air-to-close design; suitable for mounting limit switches or positioners to suit customer requirements, factory-mounted. Settings are adjusted during factory test run.



Applications:

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

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

SISTO-LAP



Control air pressure [bar] Closing force [N]

≤ 10 ≤ 250000

≤ 10 Description:

Piston actuator in heavy-duty design for mounting on valves with a linear stem movement (globe, diaphragm and gate valves). Mounting flange to DIN/ISO 5210, available in single-acting spring-to-close or spring-to-open design, or double-acting air-to-open/air-to-close design; suitable for mounting limit switches or positioners to suit customer requirements, factory-mounted. Settings are adjusted during factory test run.



Applications:

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

Actuators

SISTO-C LAP



Control air pressure [bar] Closing force [N]

≤ 10 Description: ≤ 20000

Piston actuator in high-grade stainless steel design for use on SISTO-C diaphragm valves. Available in single-acting spring-to-close or

spring-to-open design, or double-acting air-to-open/air-to-close design; suitable for mounting limit switches or positioners to suit customer requirements, factory-mounted. Settings are adjusted during factory test run.

Applications:

Biotechnology, pharmaceutical industry, sterile processes, food and

beverages industry.

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



63

Actuator accessories

RMD



Enclosure $T_{min.}$ [°C] T_{max.} [°C]

IP65 Description:

≥ -20 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 ≤ +80 override is fitted between the valve and the actuator. The manual override has priority over the pneumatic or hydraulic actuator and is locked either in clutched or declutched position using the locking device.



Applications:

All applications in water, energy and industrial engineering.

Monitoring

AMTROBOX



Encl	osure
T _{min.}	[°C]
T _{max.}	[°C]



≥ -20 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.

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

Applications:

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



AMTROBOX EEx ia



Enclosure $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ T_{max} [°C]

IP67 Description:

≥ -20 Multi-functional AMTROBOX limit switch box. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX EEx ia (R1172): intrinsically safe version for potentially explosive atmospheres.

Applications:

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



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

AMTROBOX ATEX Zone 22



Enclosure $T_{min.}$ [°C] T_{max.} [°C]

IP67 Description:

≥ -10 Multi-functional AMTROBOX limit switch box. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX ATEX (X1140, X1149): ATEX-compliant version for potentially explosive dust atmospheres (Zone 22).

Applications:

All applications in water engineering, building services and energy



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

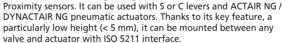
AMTROBOX F



Enclosure $\mathsf{T}_{\mathsf{min.}}\left[^{\circ}\mathsf{C}\right]$ T_{max.} [°C]

IP67 Description:

Amtrobox F is a limit switch box specially designed for levers and all > -20 ISO 5211 actuators for signalling open or closed position via





All applications in water engineering, building services and energy



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



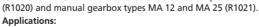
AMTROBOX M



Enclosure $T_{min.}$ [°C] T_{max.} [°C]

IP65 Description:

 \geq -20 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



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



AMTROBOX R



Enclosure $T_{min.}$ [°C] T_{max.} [°C]

IP68 Description:

≥ -45 Sturdy and multi-functional. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX R

(R1187) mounts on MR manual gearboxes, ACTAIR NG pneumatic actuators, HQ hydraulic actuators and any actuators with VDI/VDE interface.

Applications:

All applications in water engineering, energy engineering, offshore

and heavy industry.

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



65

AMTROBOX R EEx ia



Enclosure T_{min.} [°C] $T_{max.}$ [°C]

IP68 Description:

≥ -25 Sturdy and multi-functional. For open/closed position signalling via

mechanical limit switches or proximity sensors. AMTROBOX R EEx ia (R11188): intrinsically safe version for explosive atmospheres (Zones 0 + 20).



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



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

AMTROBOX R Ex d



Enclosure T_{min.} [°C] T_{max.} [°C]

IP68 Description:

Sturdy and multi-functional. For open/closed position signalling via mechanical limit switches or proximity sensors. AMTROBOX R Exd

(R1189): intrinsically safe version for potentially explosive atmospheres.

Applications:

and heavy industry.

All applications in water engineering, energy engineering, offshore

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

ON/OFF valve controllers

AMTRONIC



Enclosure Control air pressure [bar] $T_{min.}$ [°C] $T_{max.}$ [°C]

IP67 Description:

3 - 8 On/off control of pneumatic quarter-turn actuators and open/closed

≥ -20

position signalling. Mounts directly on ACTAIR NG actuators with no need for a bracket, providing a rugged, compact and integrated solution. Its integrated directional control valve eliminates the need for any pneumatic lines between AMTRONIC and the actuator. The actuating time of the actuator can be set via AMTRONIC's air flow reducer. AMTRONIC can be connected to Profibus DP and AS-i field buses. AMTRONIC has been specially developed to reduce control unit cabling. Connection via field bus enables both power supply and control information exchange with the process control system. AMTRONIC can be integrated in field bus environments with Profibus DP protocol and especially AS-i protocol. The intrinsically safe AMTRONIC Ex ia version can be operated in potentially explosive atmospheres. It complies with ATEX directive 2014/34/EU and is marked to CE 0081 Ex II 1 G. Type of protection EEx-ia IIC T6 as

Applications:

per EN 50014 and EN 50020.

All applications in water, energy and industrial engineering.



Positioners

SMARTRONIC MA



Enclosure Control air pressure [bar] $T_{\text{min.}} \left[^{\circ}C \right]$

 $T_{max.}$ [°C]

IP67 Description:

2 - 7 SMARTRONIC MA (R1310) is an electro-pneumatic digital positioner powered via the 4-20 mA signal. Mounts on ACTAIR NG/DYNACTAIR ≥ -20

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

investment, commissioning and operating costs as the unit consumes no air while idle.



Applications:

All applications in water, energy and industrial engineering.

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

SMARTRONIC AS-i



Enclosure Control air pressure [bar] T_{min.} [°C] T_{max.} [°C]

Description:

3 - 8 SMARTRONIC AS-i is an electro-pneumatic digital positioner for connection to an AS-i field bus. Certified by AS International.

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

All applications in water, energy and industrial engineering.

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

Intelligent positioners

SMARTRONIC PC



Enclosure Control air pressure [bar] $T_{min.} \, [^{\circ}C]$ T_{max.} [°C]

Description:

3 - 8 SMARTRONIC PC (R1312) is an intelligent, compact and innovative ≥ -20 positioner. The integrated control offered by this multi-functional control unit represents the latest in open-loop and closed-loop

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



All applications in water, energy and industrial engineering.



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