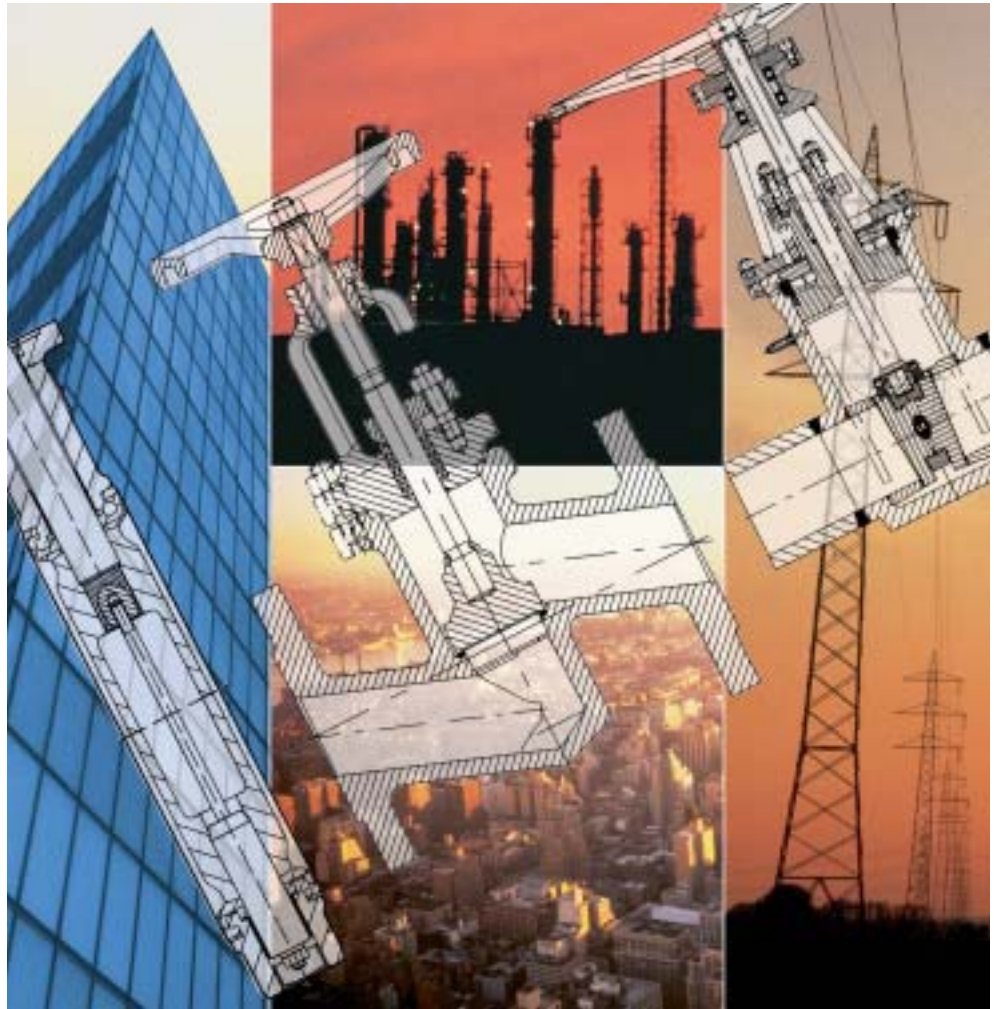


THE COMPLETE RANGE OF VALVES



YOU REQUIRE ONLY THE VERY BEST.

KSB is the leader on its market, with innovative valve technology, high quality standards and proven technical expertise. We offer first-class solutions for the control and regulation of fluids in the most diverse applications in building services, industry, chemistry, life sciences, water and ship-building. KSB. We know you require only the very best.

KSB valves are on the market under the trade names KSB, AMRI and SISTO.



GLOBE, GATE, BUTTERFLY,
DIAPHRAGM VALVES, ACTUATORS, SYSTEMS

THE RANGE OF INTELLIGENT VALVES FOR BUILDING SERVICES

CE CE symbol in accordance with the Pressure Equipment Directive (PED) 97/23/EC.

CONTROL VALVES			
EN			
	BOA-CVE SuperCompact	BOA-Control IMS	BOA-Control SAR
Pressure rating	PN 6/10/16	PN 16	PN 16
Type/Design	maintenance-free, straight-way pattern, microprocessor-controlled actuator, face-to-face dimension equals nominal size, Kvs of 6.3 to 400	maintenance-free, soft-seated, straight-way pattern, inclined seat, bonnetless, integrated flow measurement and temperature sensor, short face-to-face dimension	maintenance-free, soft-seated, Y-pattern, inclined bonnet, with differential pressure measurement
Nominal size (DN)	20-150	15-350 ³⁾	3/8" - 2"
Temperature range [°C]	-10 to +120	-10 to +120	-25 to +150
Materials	GJL-250 ¹⁾ without lining/coating	●	●
	GJL-250 ¹⁾ with lining/coating		
	GJS-400-18-LT ²⁾ without lining/coating		
	GJS-400-18-LT ²⁾ with lining/coating		
High temperature steel			
Stainless steel			
Bronze			●
Connection	Flanges	●	● ³⁾
	Butt or socket-weld ends		
	Screwed ends		●
Actuator	Manual		●
	Electric	●	
	Pneumatic		
Media handled/Applications	Drinking water		
	Cooling/-industrial water		●
	Water heating systems	●	●
	Air-conditioning systems	●	●
	Hot water		
	Steam		
	Media containing mineral oil		
	Inflammable media		
	Toxic media		
	Explosive media		
	Highly volatile media		
	Gas		
	Polymerizing/recrystallizing media		
	Corrosive media		
Media containing solids			
Abrasive media			
Heat transfer oils			
Radioactive media			



The intelligent automated control valve for Building Services, with microprocessor-controlled electric actuators with actuation forces of 1,200 N to 8,000 N, for closing pressures up to 16 bar.

The parameterised actuators permit universal control signals and actual-position feedback values (DC 2...10 V, 4...20 mA and 3 points), variable actuating times between 45 and 300 s and selection of valve characteristics.

BOATRONIC® M-2, M-420, M-LON



The measuring computers of the BOATRONIC series exploit the measurement of the calorimetric sensors integrated into the BOA-Control IMS valves.

BOATRONIC M-2 is compact and works on batteries. It does not permit continuous transmission of measured values.

BOATRONIC M-420 and M-LON permit continuous transmission of measured values.

Output signals of BOATRONIC M-420 are 4-20 mA and RS485 interfaced. The BOATRONIC M-LON can be connected directly onto a LON fieldbus network.

THE RANGE OF VALVES FOR BUILDING SERVICES, INDUSTRY AND POWER PLANTS

CE CE symbol in accordance with the Pressure Equipment Directive (PED) 97/23/EC.

GLOBE AND REGULATING VALVES														
EN											ASME			
	BOA-SuperCompact	BOA-Compact	BOA-Compact EKB	BOA-W	BOA-H		BOA-H/HE BOA-HV/HEV BOACHEM	NORI 40 ZXL	NORI 160 ZXL	NORI 500	NORICHEM ZYAB	Type GLC 150	Type GLC 900	Type GLF 800
Pressure rating	PN 6/10/16	PN 6, 16	PN 16	PN 6, 16	PN 16, 25		PN 10-40	PN 25/40	PN 63-160	PN 250-500	PN 10-40	Class 150-600	Class 900-2500	Class 800-2500
Type/Design	maintenance-free, soft-seated, straight-way pattern, inclined seat, bonnetless, DN face-to-face dimension equals nominal size	maintenance-free, soft-seated, straight-way pattern, inclined seat, bonnetless, short face-to-face dimension	maintenance-free, soft-seated, straight-way pattern, inclined seat, bonnetless, short face-to-face dimension according to DVGW, ÖVGW, SVGW	maintenance-free, soft-seated, straight-way pattern, bolted bonnet	maintenance-free, metal-seated, straight-way or angle pattern, bolted bonnet, with bellows		maintenance-free, metal-seated, straight-way pattern, bolted bonnet, with bellows	metal-seated, straight-way pattern, bolted bonnet, with gland or with bellows	metal-seated, straight-way pattern, bolted bonnet, with gland	metal-seated, straight-way or angle pattern, monobloc body without cover or bolted bonnet, with gland, with back seat	metal-seated, straight-way or Y-pattern, bolted bonnet, with gland or with bellows	metal-seated, straight-way pattern, bolted bonnet	metal-seated, Y-pattern, pressure-seal bonnet	metal-seated, straight-way pattern or Y-pattern, bolted or welded bonnet
Nominal size (DN)	20-150 (200) ⁴⁾	15-200	15-200	15-200	10-350		15-350	10-400	10-200	10-65	10-200	2"-10"	2"-8"	1/2"-2"
Temperature range [°C]	-10 to +120	-10 to +120	-10 to +70	-10 to +120	-10 to +350		-10 to +450	-10 to +450	-10 to +550	-10 to +650	-60 to +400	-10 to +427	-10 to +593	-10 to +538
Materials	GJL-250 ¹⁾ without lining/coating	●	●	●	●									
	GJL-250 ¹⁾ with lining/coating			●										
	GJS-400-18-LT ²⁾ without lining/coating				●									
	GJS-400-18-LT ²⁾ with lining/coating					●								
High temperature steel							●	●	●	●		●	●	●
							●				●			
Stainless steel										●				
Bronze														
Connection	Flanges	● ⁴⁾	●	●	●		●	●	●	●	●	●	●	●
	Butt or socket-weld ends						●	●	●	●			●	●
	Screwed ends													
Actuator	Manual	●	●	●	●		●	●	●	●	●	●	●	●
	Electric		●	●	●		●	●	●	●	●	●	●	●
	Pneumatic				●		●	●	●	●	●	●	●	●
Media handled/Applications	Drinking water			●										
	Cooling/-industrial water			●										
	Water heating systems	●	●		●	●								
	Air-conditioning systems	●	●	●										
	Hot water					●	●	●	●	●	●	●	●	●
	Steam					●	●	●	●	●	●	●	●	●
	Media containing mineral oil			●		●	●	●	●	●	●	●	●	●
	Inflammable media					●	●	●	●	●	●	●	●	●
	Toxic media					●	● ⁷⁾	● ⁷⁾	● ⁷⁾	●	●	●	●	●
	Explosive media					●	● ⁷⁾	● ⁷⁾	● ⁷⁾	●	●	●	●	●
	Highly volatile media					●	● ⁷⁾	● ⁷⁾	● ⁷⁾	●	●	●	●	●
	Gas					●	●	●	●	●	●	●	●	●
	Polymerizing/recrystallizing media							●	●	●	●	●	●	●
	Corrosive media						●			●	●	●	●	●
Media containing solids							●		●	●	●	●	●	
Abrasive media								●						
Heat transfer oils					●	● ⁷⁾	● ⁷⁾	● ⁷⁾		●	● ⁷⁾	● ⁷⁾	● ⁷⁾	
Radioactive media														

¹⁾ previously: GG-25
²⁾ previously: GGG-40.3
³⁾ DN 250-350 face-to-face dimension F1












¹⁾ previously: GG-25
²⁾ previously: GGG-40.3
⁴⁾ wafer-type body with centered flange bosses and bolt holes, DN 200 flanged type BOA-Compact

⁷⁾ bellows in accordance with TA-Luft

THE RANGE OF VALVES FOR BUILDING SERVICES, INDUSTRY AND POWER PLANTS



CE symbol in accordance with the Pressure Equipment Directive (PED) 97/23/EC.

	GATE VALVES					STRAINERS			DIAPHRAGM VALVES		
	EN			ASME		EN					
											
	DEXA 40	AKDS, AKSS, AKGS-A	ZTS	SICCA 150-600 Type GTC	SICCA 900-2500 Type GTC	SICCA 800-1500 Type GTF	BOA-S	NORICHEM	SISTO-10 SISTO-KB	SISTO-16/16S SISTO-16-TWA SISTO-16 RGA SISTO-20	SISTO-C-LC SISTO-CT SISTO-CY
Pressure rating	PN 10-40	PN 63-160	p _{max} = 600 bar	Class 150-600	Class 900-2500	Class 800-1500	PN 6, 16, 25 PN 25/40	PN 10-40	PN 10	PN 16 ISO PN 20	PN 16
Type/Design	metal-seated, bolted bonnet	metal-seated, bolted bonnet or pressure seal bonnet	metal-seated, with pressure seal bonnet	metal-seated, bolted bonnet	metal-seated, pressure seal bonnet	metal-seated, bolted or welded bonnet	Y-pattern, bolted bonnet with drain plug	Y-pattern, bolted bonnet	maintenance-free, soft-seated, straight-way pattern, diaphragm supported	maintenance-free, soft-seated, straight-way pattern, diaphragm supported by a spiral and enclosed between body and cover, DVGW-W-registr.	maintenance-free, soft-seated, straight-way pattern, Y- and T-pattern, reinforced diaphragm confined, biotechnology
Nominal size (DN)	50/50 - 250/250	80/80 - 500/400	50/50 - 500/450	2" - 20"	2" - 12"	1/2" - 2"	15 - 300	10 - 200	15 - 300	15 - 200	6 - 100
Temperature range [°C]	-10 to +450	-10 to +550	-10 to +650	-10 to +427	-10 to +593	-10 to +538	-10 to +450	-60 to +400	-40 to +130	-50 to +160	-10 to +140
Materials	GJL-250 ¹⁾ without lining/coating						●		●	●	
	GJS-400-18-LT ²⁾ without lining/coating								●	●	
Connection	High temperature steel	●	●	●	●	●				●	
	Stainless steel							●	●	●	●
Actuator	Flanges	●	●	●	●		●	●	●	●	●
	Butt or socket-weld ends	●	●	●	●	●			●	●	●
	Screwed ends								●	●	●
Media handled/Applications	Manual	●	●	●	●	●			●	●	●
	Electric	●	●	●	●	●			●	●	●
	Pneumatic	●	●	●					●	●	●
	Drinking water									●	
	Cooling/-industrial water				●				●	●	
	Water heating systems						●			●	
	Air-conditioning systems						●		●	●	
	Hot water	●	●	●	●	●	●	●	●	●	●
	Steam	●	●	●	●	●	●	●	●	●	●
	Media containing mineral oil				●		●	●	●	●	●
	Inflammable media				●		●	●	●	●	●
	Toxic media							●	●	●	●
	Explosive media							●	●	●	●
	Highly volatile media							●	●	●	●
	Gas	●	●	●	●	●	●	●	●	●	●
	Polymerizing/recrystallizing media				●		●		●	●	●
	Corrosive media							●	●	●	●
Media containing solids				●		●	●	●	●	●	
Abrasive media								●	●		
Heat transfer oils				●			●				
Radioactive media									●	●	



SISTO®-16 diaphragm valve with electric actuator (version for Industry, manufactured by AUMA).



SISTO®-16 diaphragm valve with pneumatic actuator (version for Industry).

















SISTO®-16 diaphragm valve with LAD pneumatic actuator, which is mounted directly onto the valve (lightweight and compact version).

¹⁾previously: GG-25
²⁾previously: GGG-40.3

THE RANGE OF VALVES FOR BUILDING SERVICES, INDUSTRY AND POWER PLANTS



CE symbol in accordance with the Pressure Equipment Directive (PED) 97/23/EC.

		CHECK VALVES						SWING CHECK VALVES								
		EN						ASME	EN					EN/ASME	ASME	
																
		BOA-RVK	BOA-R	NORICHEM	NORI 40	NORI 160	NORI-A	SICCA 800-2500 Type PCF	RSK RSK-S	DEXA 40	AKKS, AKRS	ZRS	SERIE 2000	SICCA 150-600 Type SCC	SICCA 900-2500 Type SCC	
Pressure rating		PN 6 PN 6/10/16	PN 6, 16	PN 10-40	PN 25/40	PN 63-160	PN 250-500	Class 800-2500	PN 16	PN 10-40	PN 63-160	p _{max} = 600 bar	PN 16-50 Class 125-300	Class 150-600	Class 900-2500	
Type/Design		maintenance-free, metal- or metal-/plastic-seated	maintenance-free, metal-seated, straight-way or angle pattern, bolted bonnet	maintenance-free, metal-seated, straight-way or Y-pattern, bolted bonnet	maintenance-free, metal-seated, straight-way pattern, bolted bonnet	maintenance-free, metal-seated, straight-way pattern, bolted bonnet	maintenance-free, metal-seated, straight-way pattern, bolted bonnet	maintenance-free, metal-seated, bolted or welded bonnet	maintenance-free, soft-seated, straight-way pattern, bolted bonnet	maintenance-free, metal-seated, bolted bonnet	maintenance-free, metal-seated, straight-way pattern, bolted bonnet or pressure seal bonnet	maintenance-free, metal-seated, straight-way pattern, pressure seal bonnet	maintenance-free, dual plate check valve, metal/elastomer- or metal/metal-seated	maintenance-free, metal-seated, bolted bonnet	maintenance-free, metal-seated, pressure seal bonnet	
Nominal size (DN)		15-200	10-350	10-200	10-300	10-200	10-50	1/2" - 2"	25-300	50/50 - 250/250	80/80 - 300/250	50/50 - 500/450	50-600	2" - 12"	2" - 12"	
Temperature range [°C]		-30 to +250	-10 to +350	-60 to +400	-10 to +450	-10 to +550	-10 to +580	-10 to +538	-30 to +120	-10 to +450	-10 to +550	-10 to +650	-250 to +540	-10 to +427	-10 to +593	
Materials	GJL-250 ¹⁾ without lining/coating	● ⁵⁾	●										●			
	GJL-250 ¹⁾ with lining/coating															
	GJS-400-18-LT ²⁾ without lining/coating		●						●							
	GJS-400-18-LT ²⁾ with lining/coating								●				●			
Connection	High temperature steel				●	●	●	●		●	●	●	●	●	●	
	Stainless steel			●									●			
	Flanges	● ⁶⁾	●	●	●	●	●	●	●	●	●	●	●	●	●	
Media handled/Applications	Butt or socket-weld ends				●	●	●	●	●	●	●	●			●	
	Screwed ends															
	Drinking water								●				●			
	Cooling/-industrial water	●							●				●			
	Water heating systems	●	●						●				●			
	Air-conditioning systems	●							●				●			
	Hot water	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Steam	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Media containing mineral oil	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Inflammable media		●	●	●	●	●	●	●				●	●	●	
	Toxic media		●	●	●	●	●	●	●				●			
	Explosive media			●	●	●	●	●	●				●			
	Highly volatile media		●	●	●	●	●	●	●				●	●	●	
	Gas	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Polymerizing/recrystallizing media			●	●	●	●	●	●					●	●	
	Corrosive media			●	●	●	●	●	●	●			●			
	Media containing solids			●	●	●	●	●	●					●	●	
Abrasive media								●	●			●	●	●		
Heat transfer oils		●	●	●	●	●	●	●				●	●	●		
Radioactive media									●							

¹⁾ previously: GG-25
²⁾ previously: GGG-40.3

⁵⁾ DN 15-100 brass
⁶⁾ wafer-type design

THE RANGE OF VALVES FOR BUILDING SERVICES, INDUSTRY AND POWER PLANTS

BUTTERFLY VALVES

EN/ASME



ISORIA 10 ISORIA 16 ISORIA 20 ISORIA 25 AQUISORIA MAMMOUTH KE DANAIS MT II DANAIS 150 BOAX-5

	ISORIA 10	ISORIA 16	ISORIA 20	ISORIA 25	AQUISORIA	MAMMOUTH	KE	DANAIS MT II	DANAIS 150	BOAX-S, BOAX-SF
Pressure rating [bar]	10	16	20	25	3, 10, 16	6-25	10	10-50	10-25	10, 16
Type/Design	maintenance-free, centered disc, ACS-, WRAS-approved	maintenance-free, centered disc, ACS-, WRAS-approved	maintenance-free, centered disc, ACS-, WRAS-approved	maintenance-free, centered disc, ACS-, WRAS-approved	maintenance-free, centered disc, ACS-, WRAS-, BELGAQUA-approved	maintenance-free, centered disc	maintenance-free, centered disc	maintenance-free, centered disc	maintenance-free, plastomer-/metal-seated, double-eccentric disc	maintenance-free, centered disc
Nominal size (DN)	40-1000	40-1000	40-600	40-1000	40-1000	1100-3000	40-600	50-2000	50-600	20-400
Temperature range [°C]	-20 to +200	-20 to +150	-20 to +80	-20 to +80	-20 to +80	0 to +65	-20 to +200	-250 to +380	-50 to +260	-20 to +130

CE CE symbol in accordance with the Pressure Equipment Directive (PED) 97/23/EC.

Body configuration and materials	EN									
	JL 1040	JS 1025								
T 1 wafer-type body	●	●								
steel and stainless steel										
T 2 semi-lug body	●	●	●	●	●					●
T 4 lug-type body	●	●								●
steel and stainless steel										
T 5 U-section (F.F.) body	●	●		●	●	●				
steel										
stainless steel										
T 6 U-section (R.F.) body	●	●			●	●				
EN JS 1030	●	●								
EN JL 1040	●	●								
steel	●	●								
stainless steel										
Body lining										
Elastomer liner AMRING	●	●	●	●	●	●	●			●
Plastomer liner PFA										
Other linings										
Disc materials										
Nodular cast iron EN JS 1030, epoxy-coated	●	●	●	●	●	●				
Nodular cast iron EN JS 1030, nickel-plated	●	●								
Stainless steel	●	●	●	●	●	●	●	●	●	●
Aluminium bronze	●	●	●	●	●	●				
Steel										
Stainless steel 13% or 17% Cr PFA-coated										
Other material variants	●	●								
Actuator										
Manual	●	●	●	●	●	●	●	●	●	●
Electric	●	●	●	●	●	●	●	●	●	●
Pneumatic	●	●	●	●	●	●	●	●	●	●
Hydraulic	●	●	●	●	●	●	●	●	●	●
Media handled/Applications										
Drinking water			●	●	●					●
Cooling/-industrial water	●	●	●	●	●	●				
Water heating systems										
Air-conditioning systems										
Hot water										
Steam										
Media containing mineral oil	●	●	●				●	●	●	●
Inflammable media										
Toxic media	●									
Explosive media	●									
Highly volatile media	●									
Gas	●									
Polymerizing/recrystallizing media	●									
Corrosive media	●									
Media containing solids	●	●	●				●	●	●	
Abrasive media	●	●	●				●			
Heat transfer oils										
Radioactive media	●	●	●					●	●	

AND OUR ACTUATORS...

ACTAIR 12 + AMTRONIC®



The double-acting pneumatic actuators with multifunctional control unit.

MR 400



The manual actuators with worm-gear mechanism and worm for torques up to 2,000 Nm.

ACTO 25



The double-acting hydraulic actuators for torques up to 16,000 Nm.

ACTELEC 400



The electric actuators.

THE RANGE OF VALVES FOR POWER PLANTS



CE symbol in accordance with the Pressure Equipment Directive (PED) 97/23/EC.

REACTOR – Resistance to Earthquakes up to 6 g.

Globe valves	Non-return valves	Diaphragm valves	Gate valves	Swing check valves	Special valves
NUCA,...	NUCA,...	MX ...	ZT ...	ZR ...	

Pressure rating [bar]	$p_{max} = 320$	$p_{max} = 320$	12	$p_{max} = 320$	$p_{max} = 320$	$p_{max} = 320$
Type/Design	metal-seated, straight-way pattern, vertical bonnet or inclined bonnet, angle pattern/Z-pattern, with bellows, with gland	metal-seated, straight-way pattern, vertical bonnet or inclined bonnet, angle pattern/Z-pattern, with/without damping	soft-seated, straight-way pattern, bolted bonnet	metal-seated, with bolted bonnet or with pressure seal, with wedges or parallel discs	metal-seated, with cover flange, pressure seal design	two-way valves, quick-acting valves, ISO valves, radial gate valves
Nominal size (DN)	6- 600	10- 600	15-200	50- 600	50- 600	6- 600
Temperature range [°C]	up to +400	up to +400	up to +100	up to +400	up to +400	up to +350
Materials	GJL-250 ¹⁾ without lining/coating					
	with lining/coating					
	GJS-400-18-LT ²⁾ without lining/coating		●			
	with lining/coating		●			
Connection	High temperature steel	●	●	●	●	●
	Stainless steel	●	●	●	●	●
	Flanges			●		●
Actuators	Butt or socket-weld ends	●	●	●	●	●
	Screwed ends					●
	Manual	●		●	●	●
Media handled/Applications	Electric	●		●	●	●
	Pneumatic	●		●	●	●
	Specific medium					●
	Drinking water					●
	Cooling-/industrial water	●	●	●	●	●
	Water heating systems					
	Air-conditioning systems					●
	Hot water	●	●		●	●
	Steam	●	●		●	●
	Media containing mineral oils					
	Inflammable media					●
	Toxic media	●	●	●	●	●
	Explosive media					
	Highly volatile media					●
	Gas	●	●	●	●	●
	Polymerizing/recrystallizing media			●		
	Corrosive media					
	Media containing solids			●		
	Abrasive media					
Heat transfer oils					●	
Radioactive media	●	●	●	●	●	

EN AND ASTM STANDARD OVERVIEW

FACE-TO-FACE LENGTH

	EN	
	Standard	Face-to-face length
Straight-way pattern globe valves	EN 558-1	1
Angle pattern globe valves	EN 558-1	8
Compact globe valves	EN 558-1	14
Gate valves	EN 558-1	14
Butterfly valves	EN 558-1	13 / 20

MATERIALS

EN			ASTM
Alphanumeric designation	Numeric designation	Standard	Alphanumeric designation
EN-GJL-250	EN-JL1040	EN 1561	A 48-40B
EN-GJS-400-15	EN-JS1030	EN 1563	A 536-60-40-18
EN-GJS-400-18-LT ¹⁾	EN-JS1025	EN 1563	–
EN-GJS-400-18-RT ²⁾	EN-JS1024	EN 1563	–
EN-GJS-400-18	EN-JS1020	EN 1563	–
P250GH	1.0460	EN 10273	A 105
GP240GH+N	1.0619+N	EN 10213-2	A 216 WCB / WCC
GX5CrNi19-10	1.4308	EN 10213-4	A 351 CF8
GX5CrNiMo19-11-2	1.4408	EN 10213-4	A 351 CF8M
X6CrNiMoTi17-12-2	1.4571	EN 10088-3	A 276 316Ti
X10CrMoVNb9-1	1.4903	VdD TÜV 511	A 217 C12A
16Mo3+TN	1.5415	EN 10028-2	A 182 F1
13CrMo4-5	1.7335	EN 10028-2	A 182 F11
10CrMo9-10	1.7380	EN 10028-2	A 182 F22
G17CrMo5-5	1.7357	EN 10213-2	A 217 WC6
G17CrMo9-10	1.7379	EN 10213-2	A 217 WC9

¹⁾ Notch value testing by low temperature (LT)

²⁾ Notch value testing by room temperature (RT)

The whole range of KSB valves on CD-ROM, technical leaflets and documents as PDF files in 9 languages. You can order the CD-ROM 'Valve Catalogue', free of charge, on: www.ksb.com



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SISTO Armaturen S.A. • 7501 Mersch (Luxembourg)



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This prospectus is not contractual.

0570.091/10-10 09/02 Stocké & Stocké, FT