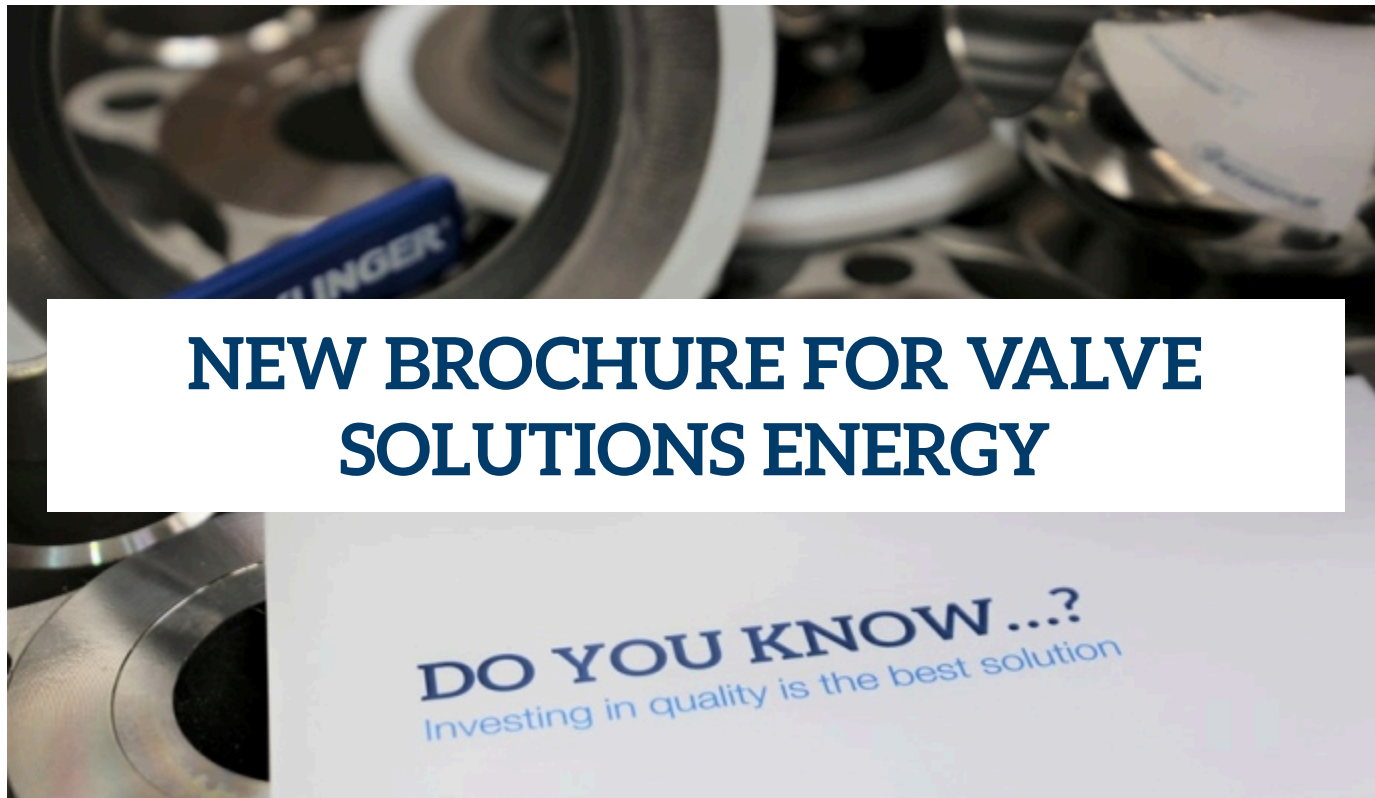




NEW BROCHURE FOR VALVE SOLUTIONS ENERGY

Dear Max,

KLINGER FLUID CONTROL proudly presents the availability of a new engineering brochure for the energy sector including district heating, geothermal and hydrogen. The brochure can be downloaded from the KLINGER FLUID CONTROL homepage in the PUBLIC DOWNLOAD area or is available in the partner login area.

BROCHURE CONTENT

The engineering brochure is structured in a way where engineers or planners can easily find a district heating plant view, product overview of KLINGER FLUID CONTROL products, applications, tender specifications, actuated solutions and a summary table with applicable product for each industry.

» BROCHURE VALVE SOLUTIONS ENERGY



WHAT MAKES US SPECIAL

With passion for outstanding quality

CONFIDENCE BOUNDS US FOR OVER 135 YEARS

Decades of experience you can trust. From planning to commission, we provide advice, development and service.

HIGHEST QUALITY IS OUR MISSION

Therefore, design and production always remain our top priority. International applications for our products made in Austria.



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BENEFITS FOR ENGINEERS & PLANNERS

This brochure is intended to assist designers and planners in selecting the appropriate KLINGER FLUID CONTROL product for their projects. In addition to a clear product overview that includes all key technical parameters such as nominal diameters, pressure ratings, materials, temperature, and pressure ranges, it also specifies the industry and the medium in which the product will be used. Tender specifications are also provided for each product and industry to assist in preparing tenders.

BALLOSTAR® KHI-F

DN 150-400, PN 10-40, with drain/test valve

FEATURES

- Two-piece body | Flanges acc. to EN 1000-1, B1 or ASME B16.5 | Body length PN 40/CL 300 EN 558-1 row 4 | ANSI B16.10 long pattern | Body length PN 15/16/25/CL 150 EN 558-1 row 12 | ANSI B16.10 long pattern | Fire Safe in standard version | optional with drain/test valve for Double block & Bleed

MATERIALS

- Body: stainless steel 1.4581, duplex 1.4470
- Ball: stainless steel 1.4581 or duplex
- Operation stem: stainless steel 1.4404 or 1.4462
- Sealing element: KFC, graphite-filled PTFE or Metal
- Stem seal: O-ring FERPM (AFLAS) V71C low temperature, C70M ammonia
- Temperature range: -10°C up to +250°C for FERPM, -45°C to +200°C for V71C, -30°C to 125°C for C70M
- Leak-tightness KFC: EN 12296-1 leakage rate A / Metal: Class IV-S1 (EN 60534-4)



» **MEDIA:** Geothermal water
AREA OF APPLICATION: Geothermal – first shut-off and heat exchanger geothermal water

» **TENDER SPECIFICATION:** Maintenance-free, cylindrical full bore; seat rings made of graphite-reinforced (25 % PTFE, three-sided metallic chamber in processed stainless steel spring elements; both sides pressurizable; ball trunnion mounted; TDN-tested double shut-off function with immediate pressure relief; from DN 300 as standard with test and drain valve (for smaller DN with surcharge) for leakage control of the installed valve; ball valve with CE marking acc. to pressure Equipment Directive 2014/68/EU, available certification depending on version ISO 14313 Double Block & Bleed, Fire Safe acc. to ISO 10497 + API 607, ISO 15848-1 fugitive emission ISO 15848-1 leakage rate A / Metal: Class IV-S1 (120°C) (40bar), SIL2, BAM oxygen, operated by mechanical worm gear or pneumatic actuator

MONOBALL KHO-U

DN 25-125, PN 40, for underground installation

FEATURES

- Weld ends in acc. with AGFW worksheet FW401 – part 5 | Body length DN 25 to DN 125: 1500 mm | Blow-out proof operating stem in stainless steel | High degree of resistance against pipeline forces | Operated by square end SW 19 unit DN 65, DN 80 to 125, SW 27/50

MATERIALS

- Body: carbon steel 1.0619
- Ball stainless steel: s DN 65 solid ball, DN 80 and larger hollow ball with guided tube
- Operation stem: stainless steel with square end
- Stem sealing: 2 temperature-resistant O-rings FERPM and 1 flat gasket KFC-25
- Sealing element: KFC graphite-filled PTFE with back-up ring AFLAS
- Temperature range: -5°C up to +200°C
- Leak-tightness: EN 12296-1 leakage rate A



» **MEDIA:** District heating water
AREAS OF APPLICATION: District heating – underground installation

» **TENDER SPECIFICATION:** Fully welded body; maintenance-free, cylindrical full or reduced bore; seat rings made of graphite-reinforced (25 % PTFE with back-up O-ring AFLAS and bellows washer stainless steel, triple stem sealing consisting of two FERPM O-rings and one graphite-reinforced (25 % PTFE) gasket ensures tightness to atmosphere; both sides pressurizable; loading ball, ball valve with CE marking acc. to pressure Equipment Directive 2014/68/EU, suitable for transmitting pipeline forces acc. to AGFW worksheet FW 401 and DN EN 488:2019

PRODUCT & PROCESS MAPPING

A summary table on the last pages is also included in the brochure as a quick reference, in which all KLINGER FLUID CONTROL PRODUCTS are categorized by product version, specific industry, industrial sector, and media used. We hope that this engineering brochure will be of benefit to your project-related activities or add value when specifying KLINGER FLUID products.

KLINGER PRODUCT	VERSION	INDUSTRY	SEGMENT AREA	MEDIA	ACTUATED SOLUTIONS
Sakuba® KH	with drain/vent valve, flushing valve		First shut-off and heat exchanger geothermal water	Geothermal water	pneumatic or electric actuator
	with drain/vent valve		District heating	District heating water	electric actuator
	with drain/vent valve, flushing valve		First shut-off and heat exchanger geothermal water	Geothermal water	pneumatic or electric actuator
	with drain/vent valve		Heat generation, primary network & above-ground insulation/exchange station, District heating, Hydrogen production/technology	District heating water/boiler/hydrogen/variou gases/ ammonia	electric actuator
Sakuba® KHSVI VVS	prepared for underground solutions, extended body length, extended shaft		Underground insulation	District heating water	gear side mounted, mechanical gear and angle gear
	prepared for underground solutions, extended body length, extended shaft		Underground insulation	District heating water	with T-wrench or mobile slip on gear
	full tapping valve, branching valve		Underground insulation	District heating water	
	drain/vent		Underground insulation	District heating water	
Morsball KHO-SF	with weld and flange end		Exchange station/hub station	District heating water/waste heat	hand operated
	with flange end		Exchange station/hub station	District heating water/waste heat	hand operated
	with weld end		Exchange station/hub station	District heating water/waste heat	hand operated
	with flange or weld end and ISO TOP flange		Heat generation/primary network & above-ground insulation/exchange station	District heating water/waste heat	pneumatic or electric actuator
Sakuba® KHA-F	with flange end with weld end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator
	with flange end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator
	with flange end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator
	with flange end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator
Sakuba® KHA-F/S/S/SL DBB	with flange end with weld end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator
	with flange end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator
	with flange end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator
	with flange end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator
Fiction valve KVM	with flange end with weld end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator
	with flange end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator
	with flange end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator
	with flange end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator
Fiction valve KVM	with flange end with weld end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator
	with flange end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator
	with flange end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator
	with flange end		Heat generation/exchange station/hub station, District heating, Hydrogen production/technology/waste applications	District heating water/hydrogen/ various gases/ammonia	pneumatic or electric actuator

DID YOU KNOW?

Another service we offer—beyond supporting design firms—is our presence on [AUSSCHREIBEN.DE](https://ausschreiben.de), a platform where potential customers can easily search for suitable listed product solutions for their projects.

KLINGER FLUID CONTROL ball valve models, such as the KHSVI-VVS and the fully welded KHO-U, which are designed for underground installation, have recently been listed on the tender platform by Kingspan/Logstor.

» LISTED PRODUCTS ON AUSSCHREIBEN.DE



Liefen und montieren einer Absperrarmatur DN 25

Stahlrohr: Ø 33,7 mm Mantelrohr: Ø 90 mm L: 1500 mm H: 404 mm Gefertigt nach EN 488:2019 Dämmung: Serie 1 Netzüberwachung: Nordisch Typ: **KLINGER KHO-U** voller Durchgang oder gleichwertig Fabrikat: LOGSTOR oder gleichwertig

[LOGSTOR Deutschland GmbH](#)



Liefen und montieren einer Absperrarmatur DN 32

Stahlrohr: Ø 42,4 mm Mantelrohr: Ø 110 mm L: 1500 mm H: 404 mm Gefertigt nach EN 488:2019 Dämmung: Serie 1 Netzüberwachung: Nordisch Typ: **KLINGER KHO-U** reduzierter Durchgang oder gleichwertig Fabrikat: LOGSTOR oder gleichwertig

[LOGSTOR Deutschland GmbH](#)



Liefen und montieren einer Absperrarmatur DN 40

Stahlrohr: Ø 48,3 mm Mantelrohr: Ø 110 mm L: 1500 mm H: 411 mm Gefertigt nach EN 488:2019 Dämmung: Serie 1 Netzüberwachung: Nordisch Typ: **KLINGER KHO-U** reduzierter Durchgang oder gleichwertig Fabrikat: LOGSTOR oder gleichwertig

[LOGSTOR Deutschland GmbH](#)



Liefen und montieren einer Absperrarmatur DN 50

Stahlrohr: Ø 60,3 mm Mantelrohr: Ø 125 mm L: 1500 mm H: 419 mm Gefertigt nach EN 488:2019 Dämmung: Serie 1 Netzüberwachung: Nordisch Typ: **KLINGER KHO-U** reduzierter Durchgang oder gleichwertig Fabrikat: LOGSTOR oder gleichwertig

[LOGSTOR Deutschland GmbH](#)



More information required?

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ABOUT US

KLINGER Fluid Control has been working on developing and producing high quality industrial valves for more than 130 years.

CONTACT

www.klinger.kfc.at

LOCATIONS

Worldwide distribution anchored by strong distribution partners.

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