KLINGER® Denmark

PRODUCT OVERVIEW

Industrial Valves

www.klinger.dk

KLINGER GROUP

Visionary by Tradtion

The KLINGER Group can look back on a success story of more than 130 years and is today present in 60 countries worldwide as a globally operating group. Founded in 1886 as a family business, KLINGER is now the world's leading manufacturer and supplier of industrial gaskets, fluid control and fluid monitoring systems. With certified highest quality that meets international standards, KLINGER gaskets and valves have become industry standards. KLINGER's customers include leading companies in various industries such as oil & gas, chemical, pulp and paper, energy, manufacturing, infrastructure, automotive, marine, food and pharmaceutical. With on-site manufacturing facilities worldwide, KLINGER is able to offer both standardized and customized solutions. The KLINGER Group has laboratories where materials for leak-free fluid and gas transport are developed and tested. Here, KLINGER benefits from its more than 130 years of experience as well as modern product development.

60
Countries Worldwide

Are home to a group subsidiary or representative

€ 684 Mio.*
Annual Sales

Are generated by the KLINGER Group per year (* unconsolidated)

2,800
Employees

Our global workforce amounts 2,800 persons worldwide

18
Production Sites

For gaskets, valves, instrumentation, expansion joints and hoses

KLINGER Die Erste

Where Every Valve Adds Value

KLINGER Die Erste is a joint venture of the KLINGER Group in Taiwan, manufacturing and supplying quality and cost-effective fluid control packages around the world.

KLINGER Die Erste offers a wide range of industrial fluid control systems, including ball, gate, globe, check, butterfly and needle valves, valve actuators, pipes and fittings for piping applications. KLINGER Die Erste serves the oil and gas, chemical, petrochemical, mining, pulp and paper, water, semiconductor, general industries and provides OEM/ODM service for investment casting and parts. Our activities range from manufacturing, research and development, product application, package supply to on-site audit, maintenance and valve refurbishment. An intimate knowledge of the industrial plant and processes used by our customers worldwide enables us to solve their leakage problems with best value systems - designed to minimize total cost of ownership.

Certified personnels, working in an independently certified QC system, assure that KLINGER Die Erste products provide the value our customers have come to expect.

CERTIFIED ISO 9001:2015 & PED 2014/68/EU

We maintain a worldwide commitment not only to excellence in the design of its products, but to the control of their manufacturing. DIE ERSTE manufacturing facilities are certified to ISO 9001:2015 and EU Directives, assuring product quality, precision manufacturing and internal process integrity.

QUALITY ASSURANCE AT HEART

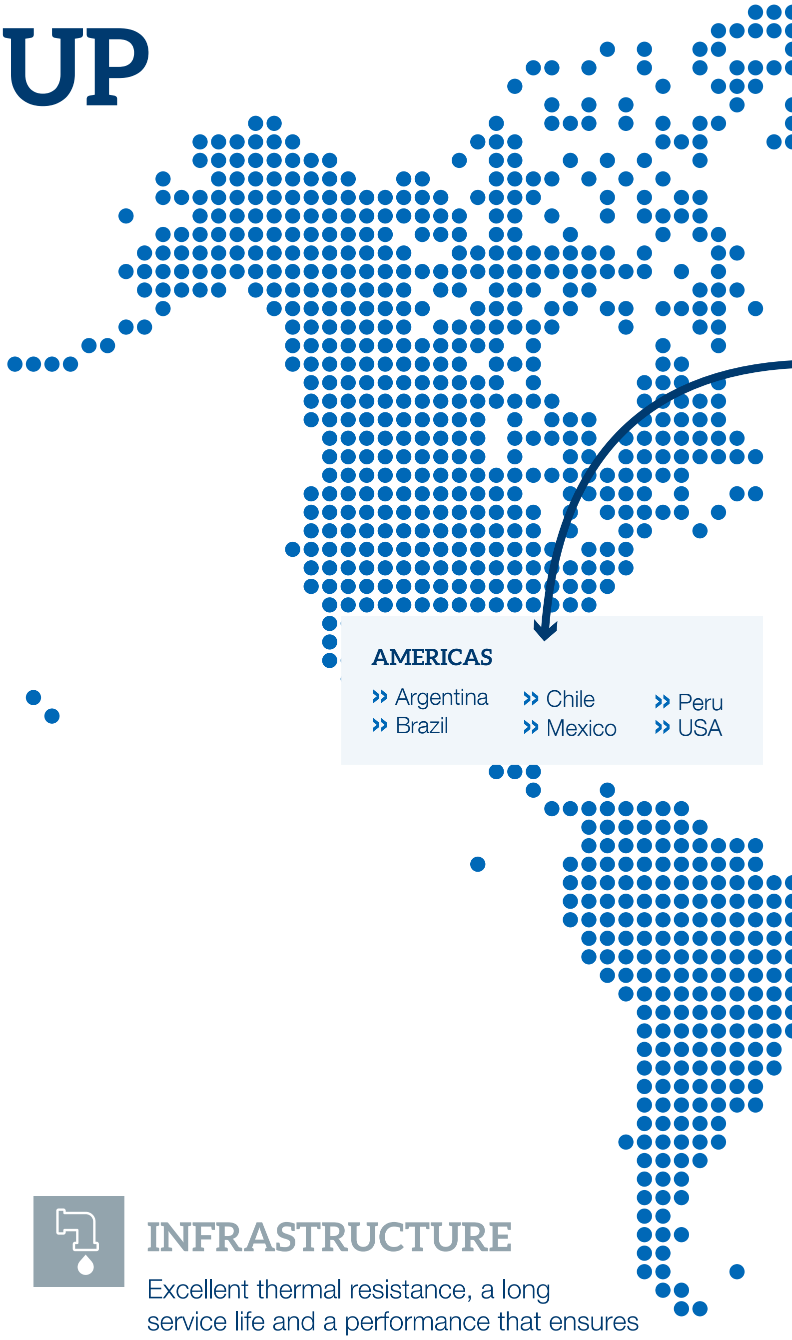
Certified quality systems nowadays are sometimes mistaken to equate to expensive certificates by many. We strictly enforce every step of the standard operating procedures, and never neglect a chance to correct and improve ourselves. Through this commitment, we offer our best products and services in a name with a promise.

KLINGER GROUP WORLDWIDE

Know-how on a local basis

KLINGER Die Erste is part of the KLINGER Group and is represented around the globe.

We offer our customers a worldwide sale network with longstanding, qualified and competent service and distribution partners. That enables quick service, optimised delivery times and customer-focused services possible on-site.



CHEMICAL INDUSTRY

KLINGER Die Erste products fulfill the high requirements of the chemical and petrochemical industry. We focus on ensuring plant and environ-mental safety by providing top-quality and durable products.

INFRASTRUCTURE

Excellent thermal resistance, a long service life and a performance that ensures efficiency, convince customers in the field of district heating as well as in the water and wastewater treatment industry with regard to our products.

MANUFACTURING INDUSTRY

Especially for the manufacturing industry a continu-ous production is of prime importance. With our revolutionary and high-quality products we assist them to avoid unplanned production stops.

PHARMACEUTICAL INDUSTRY

Cleanliness and hygiene are mandatory require-ments in the pharmaceutical industry. KLINGER Die Erste products fully comply with the strict and demanding regulations of this industry and are characterized by their long service life.

ENERGY / POWER-TO-X

In the energy sector high quality products are indispensable for the process safety. Therefore KLINGER Die Erste provides safe and reliable solutions for combined cycle, wind, solar, hydro and nuclear power plants.

MINING

The mining industry uses industrial valves in various equipment such as pumps, pipelines, conveyors, crushers and more. They are crucial in control-ling fluid flow, preventing leaks and maintaining safe pressure levels in hazardous environments, ensuring efficient and reliable operation of mining equipment.

METALS

In metal processing, our valves are used in steel-works, coking plants, blast furnaces, electric arc furnaces and other plants. They regulate media flows such as oxygen, hydrogen, natural and process gas, nitrogen and many more, prevent leaks and ensure safe and efficient operation.

OIL AND GAS

The requirements of the Oil and Gas industry are various and extremely high. We are the first choice in terms of safety and reliability and provide the best product for every single application.

MARINE

KLINGER Die Erste valves ensure operational efficiency and safety in shipping, especially with LNG and ammonia. They prevent leaks and maintain the necessary pressure for safe transportation and storage at all times.

AEROSPACE

In the aerospace industry, valves are used to control and regulate the flow of liquids, e.g. in tank farms. KLINGER Die Erste valves are already being used successfully to prevent impurities, volume losses or cross-contamination of refined fuels and to comply with safety and environmental standards.

WATER

KLINGER valves are used in water management to regulate the flow and pressure of water in pipe-lines and treatment facilities. They ensure safe and efficient operations, contributing to the proper treatment and management of both clean and wastewater.

KHD-FSB Series

Fire Safe Ball Valve

Certified to API 607 and EN ISO 10497, KLINGER Die Erste's fire safe ball valves assure tight shutoff and prevent leakage in the tremendous heat of an industrial fire. The end cap is specially designed and machined precisely with a fire-safe lip. In the event of a fire when the resilient seat has been sublimated, the ball in moves downstream to create a direct metal-to-metal contact with the end cap to prevent internal leakage, while the anti-static stem and heavy-duty body bolts add marginal safety to prevent external leakage.

KHD-FSB SERIES	SIZE	RATING	BODY MATERIAL
KHD-FSB2D Ball Valve - Fire Safe 2 Piece Flange	DN15 - DN200	PN16, PN40	1.4408, 1.0619
	1/2" - 8"	CL150, CL300	CF8M, WCB
KHD-FSB35 Ball Valve - Fire Safe 3 Piece Thread / Bw / Sw	DN8 - DN100	140bar	1.4408, 1.0619
	1/4" - 4"	2000psi	CF8M, WCB
KHD-FSB22 Ball Valve - Fire Safe 2 Piece Thread	DN8 - DN100	100bar, 140bar	1.4408, 1.0619
	1/4" - 4"	1500psi*, 2000psi	CF8M, WCB
KHD-FSB23 Ball Valve - Fire Safe 2 Piece Thread	DN8 - DN50	210bar	1.4408, 1.0619
	1/4" - 2"	3000psi	CF8M, WCB
KHD-FSB26 Ball Valve - Fire Safe 2 Piece Thread	DN8 - DN50	420bar	1.4408, 1.0619
	1/4" - 2"	6000psi	CF8M, WCB
KHD-FSB1D Ball Valve - Fire Safe 1 Piece Wafer	DN15 - DN150	PN16, PN40*	1.4408, 1.0619
			CF8M, WCB
KHD-FSB11 Ball Valve - Fire Safe 1 Piece Thread	DN8 - DN50	140bar	1.4408, 1.0619
	1/4" - 2"	2000psi	CF8M, WCB

Type:
Fire Safe Ball Valve

Nominal sizes:
DN8 - DN200
1/4" - 8"

Pressure range:
PN16/40, 420 BAR (6000 PSI)
Class 150 / CLASS 300

Temperature:
-20°C to 180°C with PTFE / TFM1600 seats
-20°C to 80°C with DELRIN seats

Material of body:
Stainless Steel, Carbon Steel

End connections:
Threaded, Socket-welding
Butt-welding Flanged

Accessories:
Spring-Return Handle, Extension Stem

CERTIFICATES AND APPROVALS

» ISO 10497
» API 607
» ISO 15848-1
» PED 2014/68/EU
» SIL3 (Direct Mount)

SPECIAL DESIGNS

» Fire safe
» Explosive prevention
» Cryogenic option available
» Standard antistatic

PRODUCT ADVANTAGES

» Maintenance-free
» Bi-directional flow
» Solid ball with full bore design
» Bidirectional sealing according to EN 12266 - leakage rate A
» Serviceable without removal from the line (3-piece)
» Anti-static design according to ISO 7121 / EN1983
» ISO 5211 top flange with easy automation assembly
» Option available with V-prot

TEMPERATURE	END CONNECTION	F-F LENGTH
-40°C to 180°C with TFM1600 seat -20°C to 180°C with PTFE/RPTFE seats	Flanged	EN 558 Series 27 ASME B16.10
-20°C to 200°C with Carbon-filled seat -20°C to 180°C with PTFE/RPTFE seats	Threaded, Butt-welding, Socket-welding	Manufacturer Standard
-20°C to 180°C with PTFE/RPTFE seats	Threaded	Manufacturer Standard
-20°C to 80°C with DELRIN seat -20°C to 240°C with PEEK seat	Threaded	Manufacturer Standard
-20°C to 80°C with DELRIN seat -20°C to 240°C with PEEK seat	Threaded	Manufacturer Standard
-40°C to 180°C with TFM1600 seat -20°C to 180°C with PTFE/RPTFE seats	Flanged	Manufacturer Standard
-40°C to 180°C with TFM1600 seat -20°C to 180°C with PTFE/RPTFE seats	Threaded	Manufacturer Standard

KHD Series

General Purpose Ball Valve

Resilient-seated ball valves for general use and commodity applications. Featuring bottom-entry blow-out proof stem design and adjustable stem packing, these ball valves are designed to industry standards, and can handle most general service applications including 150 psi saturated steam.

KHD SERIES	SIZE	RATING	BODY MATERIAL
KHD-2E Ball Valve - 2pc Flanged	DN15 - DN100	PN16	1.4408, 1.4308, 1.0619
	-	-	CF8M, CF8, WCB
KHD-2F Ball Valve - 2pc Flanged, Mounting Pad	DN15 - DN300	PN16	1.4408, 1.4308, 1.0619
	1/2"-12"	CL150, CL300	CF8M, CF8, WCB
	15 - 300	JIS10K, JIS20K	WCB, SCS13, SCS14
KHD-2D Ball Valve - 2pc Flanged, Direct-mount	DN15 - DN200	PN16, PN40	1.4408, 1.4308, 1.0619
	1/2" - 8"	CL150	CF8M, CF8, WCB
KHD-1F Ball Valve - 1pc Flanged, Mounting Pad	-	-	-
	1/2" - 4"	CL150	CF8M, CF8, WCB
KHD-1DF Ball Valve - 1pc Flanged, Direct-mount	-	-	-
	1/2" - 8"	CL150	CF8M, WCB
KHD-31 Ball Valve - 3pc Thread / Bw	DN8 - DN100	PN50	1.4408, 1.4308, 1.0619
	1/4" - 4"	CL300	CF8M, CF8, WCB
KHD-311 Ball Valve - 3pc Thread / Bw	DN8 - DN100	PN63	1.4408, 1.4308, 1.0619
	1/4" - 4"	1000 psi	CF8M, CF8, WCB
KHD-35 Ball Valve - 3pc Thread/Bw, Direct-mount	DN8 - DN100	PN63	1.4408, 1.4308, 1.0619
	1/4" - 4"	1000 psi	CF8M, CF8, WCB
KHD-11 Ball Valve - 1pc Thread	DN8 - DN50	PN63	1.4408, 1.4308, 1.0619
	1/4" - 2"	1000 psi	CF8M, CF8, WCB
KHD-15 Ball Valve - 1pc Thread, Direct-mount	-	-	-
	1/4" - 2"	1000 psi	CF8M
KHD-21E Ball Valve - 2pc Thread	DN8 - DN100	PN63	1.4408, 1.4308, 1.0619
	1/4" - 4"	1000 psi	CF8M, CF8, WCB
KHD-25 Ball Valve - 2pc Thread, Direct-mount	DN8 - DN80	PN63	1.4408, 1.4308, 1.0619
	1/4" - 3"	1000 psi	CF8M, CF8, WCB
KHD-T2 Ball Valve - 2pc Trunnion	DN50 - D900	PN10, PN16, PN25, PN40, PN63, PN100, PN160	1.4408, 1.0619
	2" - 36"	CL150, CL300, CL600, CL900, CL1500, CL2500	CF8M, WCB
KHD-T3 Ball Valve - 3pc Trunnion	DN50 - DN1200	PN10, PN16, PN25, PN40, PN63, PN100, PN160	1.4408, 1.0619
	2" - 48"	CL150, CL300, CL600, CL900, CL1500, CL2500	CF8M, WCB

Type:
Soft-Seated Ball Valve, w/ or w/o direct mounting pad

Nominal sizes:
DN8 - DN300
1/4" - 12"

Pressure range:
PN10, PN16, PN25, PN40, PN63, PN100, PN160
CL150, CL300, CL600, CL900, CL1500, CL2500

Temperature:
-20°C to 180°C with PTFE seats
-20°C to 200°C with MG1241 seats
-20°C to 180°C with PTFE/RPTFE seats

Material of body:
Stainless Steel, Carbon Steel
Duplex Steel, Super Alloy

End connections:
Threaded, Butt-welding, Long butt-welding
Socket-welding, Flanged
Combination of end connections also available

Accessories:
Spring-Return Handle, Extension Stem

CERTIFICATES AND APPROVALS

- PED 2014/68/EU
- SIL3 (Direct Mount.)

SPECIAL DESIGNS

- Fire safe design
- Explosive prevention
- Standard antistatic
- ISO 15848-1(optional)

PRODUCT ADVANTAGES

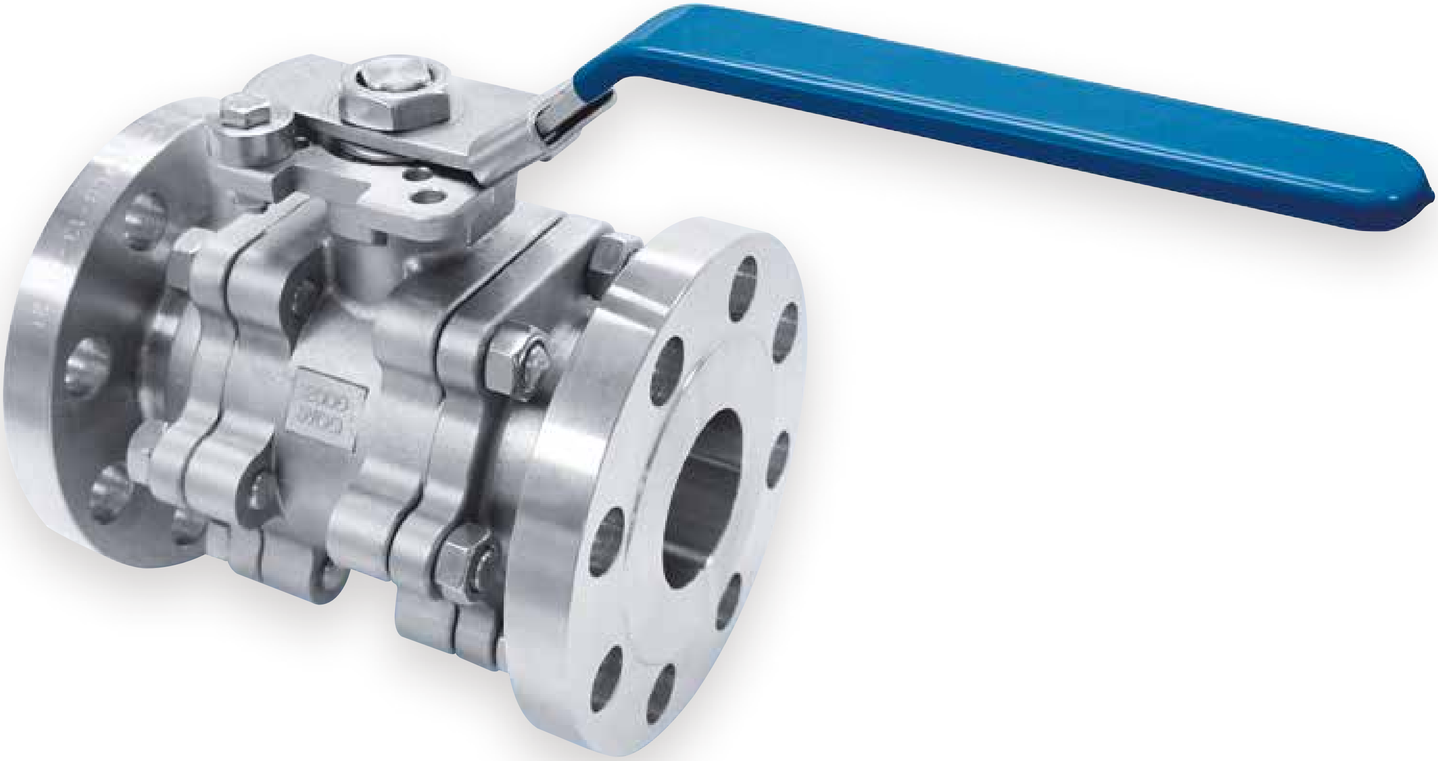
- Maintenance-free
- Bi-directional flow
- Solid ball with full bore design
- Bi-directional sealing according to EN 12266 - leakage rate A
- Serviceable without removal from the line (3-piece)
- Anti-static design according to ISO 7121 / EN1983
- ISO 5211 top flange with easy automation assembly

TEMPERATURE	END CONNECTION	F-F LENGTH
-20°C to 180°C with PTFE seats	Flanged	EN 558 Series 27
		-
-20°C to 180°C with PTFE seats	Flanged	EN 558 Series 27
		ASME B16.10
		JIS B2002
-20°C to 180°C with PTFE seats	Flanged	EN 558 Series 27
		ASME B16.10
-20°C to 180°C with PTFE seats	Flanged	-
		ASME B16.10
-20°C to 180°C with PTFE seats	Flanged	-
		ASME B16.10
-20°C to 180°C with PTFE/RPTFE seats	Threaded, Butt-welding, Long Butt-welding, Socket-welding, Combination of End Connections Also Available	Manufacturer Standard
-20°C to 180°C with PTFE seats -20°C to 200°C with MG1241 seats	Threaded, Butt-welding, Long Butt-welding, Socket-welding, Combination of End Connections Also Available	Manufacturer Standard
-20°C to 180°C with PTFE seats -20°C to 200°C with MG1241 seats	Threaded, Butt-welding, Long Butt-welding, Socket-welding, Combination of End Connections Also Available	Manufacturer Standard
-20°C to 180°C with PTFE seats	Threaded, Butt-welding	Manufacturer Standard
-20°C to 180°C with PTFE seats	Threaded, Butt-welding	Manufacturer Standard
-20°C to 180°C with PTFE seats	Threaded	Manufacturer Standard
-20°C to 180°C with PTFE seats	Threaded, Butt-welding	Manufacturer Standard
-20°C to 180°C with PTFE/RPTFE seats	Flanged, Butt-welding, RTJ	EN 558 Series 27, Manufacturer Standard
		ASME B16.10, Manufacturer Standard
-20°C to 180°C with PTFE/RPTFE seats	Flanged, Butt-welding, RTJ	EN 558 Series 27, Manufacturer Standard
		ASME B16.10, Manufacturer Standard

KHD-MS Series

Metal-Seated Ball Valve

Specialized precision lapping of the ball-to-seat contact results in superior interfacing and a tight shut-off conforming to API 598, ISO 5208 Rate C, EN 12266 Rate C, ANSI FCI 70 Class V (others on request). KLINGER Die Erste Metal-Seated Ball Valves offer excellent sealing characteristics, suitable for severe environments including dirty fluids, or media of high viscosity or corrosive nature up to 450°C/842°F.



KHD-MS SERIES	SIZE	RATING	BODY MATERIAL
KHD-MS2D Ball Valve - 2pc Flanged (Metal Seat)	DN8 - DN150	PN16, PN40	1.4408, 1.0619
	1/4" - 6"	CL150, CL300	CF8M, WCB
KHD-MS35 Ball Valve - 3pc Thread/Bw/Sw (Metal Seat)	DN8 - DN100	PN40, PN140	1.4408, 1.0619
	1/4" - 4"	2000 psi	CF8M, WCB
KHD-MST2 Ball Valve - 2pc Trunnion Flanged (Metal Seat)	DN50 - D900	PN10, PN16, PN25, PN40, PN63, PN100, PN160	1.4408, 1.0619
	2" - 36"	CL150, CL300, CL600, CL900, CL1500, CL2500	CF8M, WCB
KHD-MST3 Ball Valve - 3pc Trunnion Flanged (Metal Seat)	DN50 - DN1200	PN10, PN16, PN25, PN40, PN63, PN100, PN160	1.4408, 1.0619
	2" - 48"	CL150, CL300, CL600, CL900, CL1500, CL2500	CF8M, WCB

Type:
Metal-Seated Ball Valve

Nominal sizes:
DN8~DN1200
1/4" - 48"

Pressure range:
PN10, PN16, PN25, PN40, PN63, PN100, PN160
CL150, CL300, CL600, CL900, CL1500, CL2500

Temperature:
HCr max to 350°C
Nickel Alloy max to 450°C
Tungsten Carbide max to 450°C

Material of body:
Mateiral of Seat Surface / Ball Surface
Stellite / Hard-chromed, Stellite
Tungsten Carbide

End connections:
Flanged

Accessories:
Extension Stem

CERTIFICATES AND APPROVALS

» PED 2014/68/EU

» SIL3 (Direct Mount.)

SPECIAL DESIGNS

» Fire safe design

» Explosive prevention

» Standard antistatic

» ISO 15848-1(optional)

PRODUCT ADVANTAGES

» API 598, ISO 5208 Rate C, EN 12266 Rate C, ANSI FCI 70 Class V (others on request)

TEMPERATURE	END CONNECTION	F-F LENGTH
HCr max to 350°C, Nickel Alloy max to 450°C, Tungsten Carbide max to 450°C	Flanged	EN 558 Series 27
		ASME B16.10
HCr max to 350°C, Nickel Alloy max to 450°C, Tungsten Carbide max to 450°C	Threaded, Butt-welding, Socket-welding	Manufacturer Standard
HCr max to 350°C, Nickel Alloy max to 450°C, Tungsten Carbide max to 450°C, Stellite max to 450°C	Flanged, Butt-welding RTJ	EN 558 Series 27, Manufacturer Standard
		ASME B16.10, Manufacturer Standard
HCr max to 350°C, Nickel Alloy max to 450°C, Tungsten Carbide max to 450°C, Stellite max to 450°C	Flanged, Butt-welding RTJ	EN 558 Series 27, Manufacturer Standard
		ASME B16.10, Manufacturer Standard

KHD-M Series

Multi-port Ball Valve

Multi-port ball valves with interchangeable end connections, are excellent for mixing of line medias, diversion and bypassing of flow.

KHD-M SERIES	SIZE	RATING	BODY MATERIAL
KHD-M4 Ball Valve - 3-way Thread/Bw (Block Type)	1/4" - 4"	800psi*, 1000psi*	CF8M, WCB
KHD-M4F Ball Valve - 3-way Flanged (Block Type)	DN15 - DN300	PN16*, PN40*	1.4408, 1.0619
	1/4" - 14"	CL150, CL130*, CL-300	CF8M, WCB
	15A - 100A	JIS10K*, JIS20K*	SCS14A, WCB

Type:
90°/180° T/L port 3-way Ball Valve
90°/180°/270° T/L/X port 4-way Ball Valve

Nominal sizes:
DN15 - DN300
1/2" - 14"

Pressure range:
800/1000PSI, PN16, PN40
CL150, CL300, JIS10K, JIS20K

Temperature:
-20°C to 180°C with PTFE seats

Material of body:
Stainless Steel, Carbon Steel

End connections:
Threaded, Socket-welding
Butt-welding, Flanged

Accessories:
Spring-Return Handle, Extension Stem

CERTIFICATES AND APPROVALS

» PED 2014/68/EU

» SIL3 (Direct Mount.)

SPECIAL DESIGNS

» Anti blow-out proof stem

» Fire safe design

» Explosive prevention

» Standard antistatic

» ISO 15848-1(optional)

» Butt-welding end acc. to SCH40
Available in SCH10 and SCH80

TEMPERATURE	END CONNECTION	F-F LENGTH
-20°C to 180°C with PTFE seats	Threaded, Butt-welding, Socket-welding	Manufacturer Standard
-20°C to 180°C with PTFE seats	Flanged	Manufacturer Standard

KHD-SG Series

Segmented Ball Valve

Lightweight yet rugged segmented ball valves are suitable in harsh environment for both on-off and control applications. Widely used in pulp and paper, chemical, and petrochemical services.

KHD-SG SERIES	SIZE	RATING	BODY MATERIAL
KHD-SGF Ball Valve - Segment V Flanged	DN25* - DN400	PN16	1.4408, 1.4308
	1"* - 16"	CL150	CF8M, CF8, CF3, CF3M
KHD-SGW Ball Valve - Segment V Wafer	DN25 - DN250	PN16	1.4408, 1.4308
	1" - 10"	CL150	CF8M, CF8, CF3, CF3M

Type:
V-notch Segmented Ball Valve

Nominal sizes:
DN25 - DN400
1" - 16"

Pressure range:
PN16, CL150

Temperature:
-20°C to 150°C with PTFE seat
-20°C to 220°C with Metal seat

Material of body:
Stainless Steel, Carbon Steel

End connections:
Flanged, Wafer

Accessories:
Extension Bracket

CERTIFICATES AND APPROVALS

» PED 2014/68/EU

SPECIAL DESIGNS

» Fire safe design
» ISO 15848-1(optional)

PRODUCT ADVANTAGES

» Uni-body prevents external leakage
» Durable metal seat, or PTFE soft seat depending on application
» ISO 5211 Mounting pad for easy automation
» Extremely low actuator torque

TEMPERATURE	END CONNECTION	F-F LENGTH
-20°C to 150°C with PTFE seat -20°C to 220°C with Metal seat	Flanged	EN 558 Series 36
		ISA-75.08.02
-20°C to 220°C with Metal seat	Wafer	Manufacturer Standard

KHD-TB Series

Tank Bottom Ball Valve

Customizing tank bottom ball valves are well-suited for general purpose tank or vessel applications.

KHD-TB SERIES	SIZE	RATING	BODY MATERIAL
KHD-TB Ball Valve - Tank Bottom Flanged (Soft Seat)	DN25 - DN100	PN16	1.4408, 1.4308, 1.0619
	1" - 4"	CL150	CF8M, CF8, WCB

Type:
Tank Bottom Full Port Ball Valve

Nominal sizes:
DN25 - DN100
1"- 4"

Pressure range:
PN16, CL150

Temperature:
-20°C to 180°C with PTFE seats

Material of body:
Stainless Steel, Carbon Steel

End connections:
Flanged

CERTIFICATES AND APPROVALS

» PED 2014/68/EU

STANDARDS

» Basic design according to ANSI B16.34

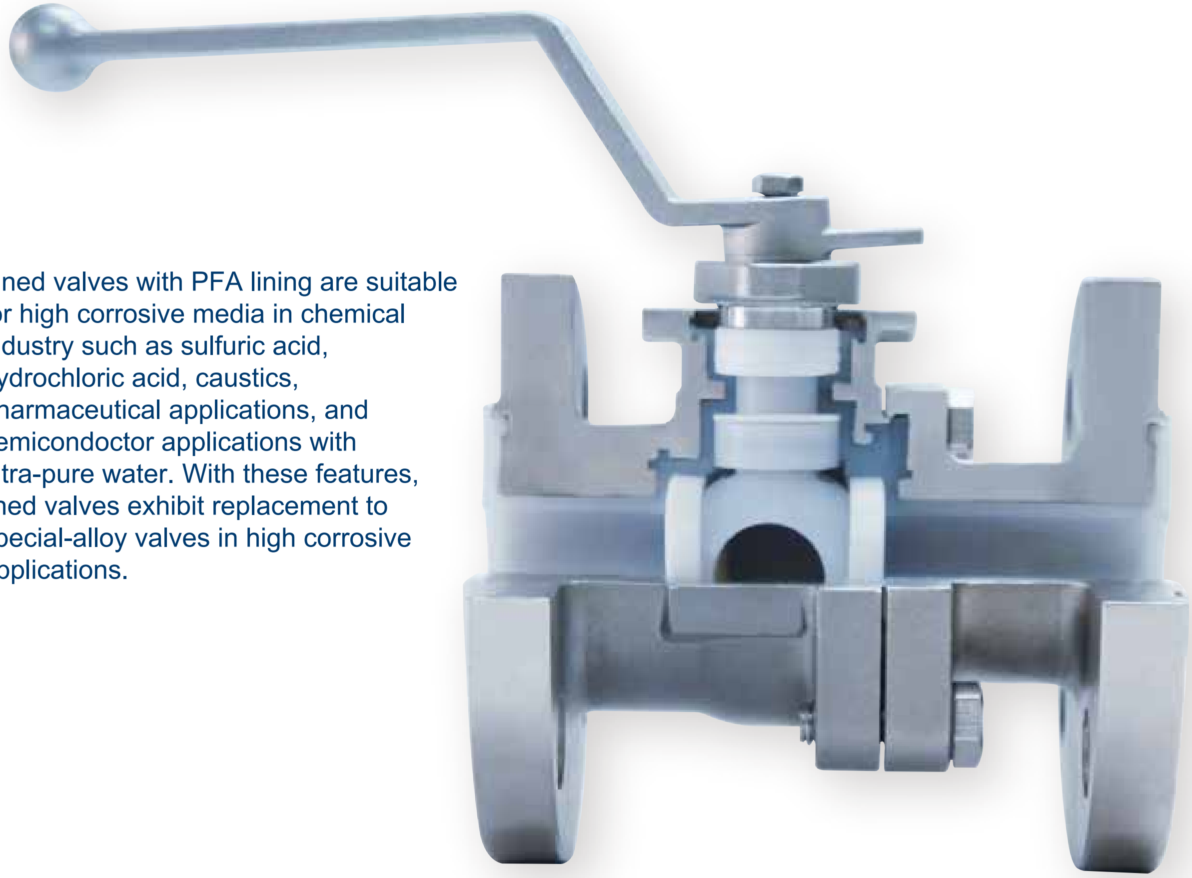
SPECIAL DESIGNS

» Anti blow-out proof stem

TEMPERATURE	END CONNECTION	F-F LENGTH
-20°C to 180°C with PTFE seats	Flanged	Manufacturer Standard

LINED VALVE Series

PFA-lined, FEP-lined



Lined valves with PFA lining are suitable for high corrosive media in chemical industry such as sulfuric acid, hydrochloric acid, caustics, pharmaceutical applications, and semicondoctor applications with ultra-pure water. With these features, lined valves exhibit replacement to special-alloy valves in high corrosive applications.

KHD-L SERIES	SIZE	RATING	BODY MATERIAL
KHD-LB Ball Valve - Lined	DN15 - DN200	PN16	1.4308, 1.0619
	1/2" - 8"	CL150, CL300	
KHY-LB Ball Valve - Lined	DN15 - DN350	PN6, PN10, PN16, PN25	-
	1/2" - 10"	CL150	CF8M, CF8, CF3,CF3M, WCB
	1/2" - 10"	JIS10K	-
KKD-L81 / KKY-L81 Butterfly Valve - Lined	DN40 - DN600	PN10, PN16	-
	1-1/2" - 24"	CL150	CF8M, CF8, CF3,CF3M, WCB
	1-1/2" - 20"	JIS10K	-
KSY-LGT Gate Valve - Lined	DN25 - DN300	PN10, PN16, PN25	-
	1" - 12"	CL150	CF8M, CF8, WCB
KAY-LGB Globe Valve - Lined	DN15 - DN250	PN10, PN16, PN25	-
	1/2" - 10"	CL150	CF8M, CF8, WCB
KRY Check Valve - Lined	DN15 - DN350	PN10, PN16, PN25	-
	1/2" - 14"	CL150	CF8M, CF8, WCB
KMY Diaphragm Valve - Lined	DN15 - DN250	PN6, PN10, PN16	-
	1/2" - 10"	CL150	CF8M, CF8, WCB
KPD-LPV / KPY-LPV Plug Valve - Lined	DN15 - DN250	PN10, PN16	-
	1/2" - 10"	CL150, CL300	CF8M, CF8, WCB

Note 1: Select sizes may be under development. Note 2: Face to face may be according to different length or standard.

Type:
Lined Ball Valve, Lined Butterfly Valve
Lined Gate Valve, Lined Globe Valve
LIned Check Valve, Lined Plug Valve
Lined Diaphragm Valve

Nominal sizes:
DN15 - DN500
1/2" - 20"

Pressure range:
PN6, PN10, PN16, PN25, CL150, CL300, JIS10K

Temperature:
PTFE-lined: -29 °C to +180 °C
PFA-lined: -29 °C to +180 °C
FEP-lined: -29 °C to +150 °C
PO-lined: -10 °C to +80 °C

Material of body:
Stainless Steel, Carbon Steel

End connections:
Flanged, Wafer, Lug, Double-flanged

CERTIFICATES AND APPROVALS

» PED 2014/68/EU

PRODUCT ADVANTAGES

» PFA lining provides top corrosion resistance.
» Full bore ensures high flow capacity matching the pipeline.
» One-piece ball-stem design prevents damage to PFA lining.
» All lining parts undergo a 15KV spark test to ensure integrity.
» Integral mounting pad design prevents torque inconsistencies.

TEMPERATURE	END CONNECTION	F-F LENGTH
PFA-lined: -20 °C to +180 °C FEP-lined: -20 °C to +150 °C	Flanged	EN 558-1 Series 1, Manufacturer Standard
		ASME B16.10
PFA-lined: -29 °C to +180 °C FEP-lined: -29 °C to +150 °C PO-lined: -10 °C to +80 °C	Flanged	Manufacturer Standard
		ASME B16.10
		ASME B16.10
PTFE-lined: -29 °C to +180 °C PFA-lined: -29 °C to +180 °C FEP-lined: -29 °C to +150 °C PO-lined: -10 °C to +80 °C	Wafer, Lug, Double-flanged	EN 558 Series 20, API 609, Manufacturer Standard
		API 609, ASME B16.10
		API 609
PFA-lined: -29 °C to +180 °C FEP-lined: -29 °C to +150 °C PO-lined: -10 °C to +80 °C	Flanged	EN 558 Series 3, , Manufacturer Standard
		ASME B16.10
PFA-lined: -29 °C to +180 °C FEP-lined: -29 °C to +150 °C PO-lined: -10 °C to +80 °C	Flanged	EN 558 Series 1, Manufacturer Standard
		-
PFA-lined: -29 °C to +180 °C FEP-lined: -29 °C to +150 °C PO-lined: -10 °C to +80 °C	Wafer, Flanged	EN 558 Series 1, Manufacturer Standard
		Manufacturer Standard, ASME B16.10
PFA-lined: -29 °C to +180 °C FEP-lined: -29 °C to +150 °C PO-lined: -10 °C to +80 °C	Flanged	Manufacturer Standard
		Asme B16.10
PFA-lined: -29 °C to +180 °C FEP-lined: -29 °C to +150 °C PO-lined: -10 °C to +80 °C	Flanged	EN 558 Series 1, EN 558 Series 3, Manufacturer Standard
		ASME B16.10

KKD-82 Series

Double Offset Butterfly Valve

Double Offset Butterfly valves are well suited for applications where rubber lined butterfly valves cannot be used due to limited pressure and temperature range. These offer 100% bidirectional disc sealing with soft seats, while metal seat offers uni-directional sealing in high temperature applications. On request, the metal seat option can be made bi-directional to EN 12266-1 Class V.

KKD-82 SERIES	SIZE	RATING	BODY MATERIAL
KKD-82 Butterfly Valve - Double Offset (Soft Seat)	DN50 - DN1200	PN16, PN25, PN40	1.4408, 1.4308, 1.0619
	2" - 48"	CL150, CL300	CF8M, CF8, WCB
KKD-82MS Butterfly Valve - Double Offset (Metal Seat)	DN50 - DN1200	PN16, PN40	1.4408, 1.4308, 1.0619
	2" - 48"	CL150, CL300	CF8M, CF8, WCB
KKD-82FS Butterfly Valve - Double Offset (Fire Safe Seat)	DN50 - DN1200	PN16, PN25, PN40	1.4408, 1.4308, 1.0619
	2" - 48"	CL150, CL300	CF8M, CF8, WCB

Type:
Double Offset Butterfly Valve, Soft-seated
Metal-seated and Firesafe-seated

Nominal sizes:
DN50 - DN1200
2" - 48"

Pressure range:
PN16, PN25, PN40, CL150, CL300

Temperature:
-20°C to 240°C with Soft seat
-20°C to 425°C with Metal seat

Material of body:
Stainless Steel, Carbon Steel

End connections:
Wafer, Lug, Double-flanged

CERTIFICATES AND APPROVALS

- ISO 10497
- API 607
- ISO 15848-1
- PED 2014/68/EU

SPECIAL DESIGNS

- Fire safe version
- VOC (Low fugitive emission) version
- Oil, grease and silicone-free
- Oxygen version
- Vacuum version

PRODUCT ADVANTAGES

- Double eccentric structure reduces torque while ensuring tight sealing.
- Dynamic load seat design enhances elasticity and reliability.
- Compact body design saves space.
- Bi-directional: KKD-82 (Soft-seated)
- Uni-directional: KKD-MS82 (Metal-seated)

TEMPERATURE	END CONNECTION	F-F LENGTH
-20°C to 180°C with RPTFE/PTFE Seats	Wafer, Lug, Double-flanged	API 609 Cat. B
-20°C to 425°C with Metal Seats	Wafer, Lug, Double-flanged	API 609 Cat. B
-20°C to 180°C with RPTFE/PTFE Seats	Wafer, Lug, Double-flanged	API 609 Cat. B

KKD-83 Series

Triple Offset Butterfly Valve

Triple Offset Butterfly Valves with metal seat are designed for high-temperature and high-pressure applications, and are well-suited for applications requiring bi-directional zero leakage.These provide space and weight savings while minimizing installation and maintenance costs. In addition to the two offsets in the double offset butterfly valve, the third offset eliminates rubbing and reduces wear between the seat and seal ring during operation. There is no friction as the seal ring will immediately leave the valve seat when the valve isopened. Contact is only only made at the final point of closure. Once the seat and seal ring are in contact, torque is applied to create a bi-directional bubble tight seal.

KKD-83 SERIES	SIZE	RATING	BODY MATERIAL
KKD-83LA Butterfly Valve - Triple Offset Laminated Seat	DN50 - DN2000	PN6 - PN250	-
	2" - 80"	CL150 - CL1500	WCB, LCB, CF8M, GR5A
KKD-83MS Butterfly Valve - Triple Offset Solid Metal Seat	DN80 - DN2000	PN6 - PN250	-
	3" - 80"	CL150 - CL1500	WCB, LCB, CF8M, GR5A
KKD-83CLT Butterfly Valve - Triple Offset for Cryogenic Use	DN50 - DN1200	PN6 - PN250	-
	2" - 48"	CL150 - CL1500	WCB, LCB, CF8M, GR5A
KKD-83ES Butterfly Valve - Triple Offset for Fuel Exhaust or Blast Furnace	DN50 - DN2000	PN2.5, PN6, PN10 PN16, PN25, PN40	-
	2" - 80"	CL150, CL300	WCB, LCB, CF8M, GR5A

Type:
Triple Office Butterfly Valve with
Laminated Seat or Metal Seat Design

Nominal sizes:
DN50 - DN2000
2" - 80"

Pressure range:
PN2.5, PN6, PN10, PN16, PN25, PN40, PN63, PN100
PN160, PN250, CL150, CL300, CL600, CL900, CL1500

Temperature:
-29°C to 200°C with metal seat
-196°C to 600°C with special design seat

Material of body:
Stainless Steel, Carbon Steel, Duplex Alloy

End connections:
Wafer, Lug, Double-flanged, Butt-welding, Coupling, Flanged

CERTIFICATES AND APPROVALS

» ISO 15848-1

» PED 2014/68/EU

SPECIAL DESIGNS

» Fire safe version

» VOC (Low fugitive emission) version

» Oil, grease and silicone-free

» Oxygen version

» Vacuum version

» Cryogenic design

» High temperature design

TEMPERATURE	END CONNECTION	F-F LENGTH
-29°C to 120°C	Wafer, Lug, Flanged, Butt-welding, Coupling	Manufacturer Standard
-29°C to 425°C	Wafer, Lug, Flanged, Butt-welding	Manufacturer Standard
-196°C to 120°C	Wafer, Lug, Flanged, Butt-welding, Coupling	Manufacturer Standard
-29°C to 600°C	Wafer, Lug, Flanged, Butt-welding	Manufacturer Standard

KKD-81 Series

Centric Line Butterfly Valve

Centric Butterfly valve is a cost-effect compact solution for general purpose applications. With multiple rubber seats to choose from.

KKD-81 SERIES	SIZE	RATING	BODY MATERIAL
KKD-81E Butterfly Valve - Centric Line (Manual)	DN40 - DN1000	PN10, PN16	CF8M, CF8, CI, DI, WCB
	1-1/2" - 40"	CL125, CL150	
KKD-81 Butterfly Valve - Centric Line (Bare Shaft for Automation)	DN50 - DN1200	PN10, PN16	CF8M, CF8, CI, DI, WCB
	2" - 48"	CL125, CL150	

Type:
Concentric Butterfly Valve, for manul or automation-use

Nominal sizes:
DN40 - DN1200
1½" - 48"

Pressure range:
PN10, PN16, CL125, CL150

Temperature:
-20°C to +80°C with NBR seat
-20°C to +120°C with EPDM seat
-10°C to +200°C with VITON seat
-20°C to +150°C with PTFE seat

Material of body:
Stainless Steel, Carbon Steel
Ductile Iron, Gray Iron

End connections:
Wafer, Lug, Double-flanged

CERTIFICATES AND APPROVALS

» PED 2014/68/EU

PRODUCT ADVANTAGES

» Suitable for use in HVAC, irrigation, industrial applications where positive shutoff is required

» Single through-put shaft provides most economical pricing

» 10 position lever or gear operation

» Alloy material available on request

OPTIONS

» Double “Half Pin” style available for increased performance and lifecycle

» Coated disc available in: rubber, PTFE, nylon

LIMITATION

» Do not use EPDM when hydrocarbons are present.

» Kindly anticipate increased torque for PTFE coated disc + PTFE seat option; gear operation recommended for sizes ≥ 4”.

» End-of-line service at half rating

TEMPERATURE	END CONNECTION	F-F LENGTH
-20°C to 80°C with NBR seat, -20°C to 120°C with EPDM seat -20°C to 150°C with PTFE seat, -10°C to 200°C with VITON seat	Wafer, Lug, Double-flanged	Manufacturer Standard
-20°C to 80°C with NBR seat, -20°C to 120°C with EPDM seat -20°C to 150°C with PTFE seat, -10°C to 200°C with VITON seat	Wafer, Lug, Double-flanged	Manufacturer Standard

DISTRICT HEATING/ COOLING VALVES

Product Expansion in Progress

The Fully Welded Ball Valve is designed specifically for district heating and cooling systems, providing a robust and maintenance-free solution. Its fully welded construction ensures zero leakage, high durability, and long service life, making it ideal for buried applications and harsh environments. The Triple Offset U-Type Flexible Metal Seal Butterfly Valve offers exceptional performance in high-pressure and high-temperature applications. Its unique triple offset design minimizes friction and wear, providing reliable bi-directional zero leakage. The U-type flexible metal seal enhances sealing performance and longevity, ensuring optimal efficiency and safety. The Triple Offset Solid Metal Seated Butterfly Valve is engineered for the most demanding applications, featuring a solid metal seat that ensures tight sealing even under extreme conditions. The triple offset design eliminates rubbing between the seat and seal ring, reducing wear and extending valve life.
This valve is perfect for applications requiring high durability and minimal maintenance.
These valves are integral components in district heating and cooling systems, offering unparalleled reliability, efficiency, and longevity, thus ensuring smooth and uninterrupted service.

DISTRICT HEATING/ COOLING VALVES	SIZE	RATING	BODY MATERIAL
KHD-FW Ball Valve - Fully Welded for District Heating	DN15 - DN1400	PN16, PN25, PN40	Carbon Steel
	1/2" - 56"	CL150, CL300	
KKD-FW Butterfly Valve - Triple Offset U-type Flexible Metal Seal	DN300 - DN1400	PN16, PN25, PN40	Carbon Steel
	12" - 56"	CL150, CL300	
KKD-83DH Butterfly Valve - Triple Offset Solid Metal Seated	DN100 - DN2000	PN25	Carbon Steel
	4" - 80"	CL150, CL300	

Type:
Fully Welded Ball Valve,
Triple Offset U-Type Flexible Metal Seal Butterfly Valve, Triple Offset Solid Metal Seated Butterfly Valve

Nominal sizes:
DN15 - DN2000
1/2" - 80"

Pressure range:
PN16, PN25, PN40, CL150, CL300

Temperature:
-20°C to 200°C

Material of body:
Carbon Steel

End connections:
Threaded, Double-flanged, Butt-welding, Flanged

CERTIFICATES AND APPROVALS

» PED 2014/68/EU

PRODUCT ADVANTAGES

» Fully welded construction avoids leakage
» Lightweight and compact
» Easy to install and insulate
» Long service life, maintenance free
» Anti-blowout stem for safety
» Trunnion-mounted on larger sizes
» Multiple-seal design ensures tightness
» Bi-directorial tight to EN12266-1: Rate A
» Designed to EN 488

TEMPERATURE	END CONNECTION	F-F LENGTH
-20°C to 200°C	Threaded End, Welding End	Manufacturer Standard
-10°C to 200°C	Welding End, Double-flanged	Manufacturer Standard
-29°C to 120°C	Buttwelding, Flange	Manufacturer Standard

KSD Series

Gate Valve

The gate valve offers material and wall thickness options based on different standards, providing various disc types such as flexible wedge, solid wedge, and split disc, suitable for a wide range of industrial applications. It comes with standard packing and low-emission certified packing to meet stringent environmental standards.Designed for high performance and durability, this valve is ideal for industries like oil and gas, petrochemical, power generation, and water treatment. Gate valves are commonly used for fully open/fully closed operations, and when fully open, they do not sacrifice pressure loss due to the flow passing through the valve.

KSD SERIES	SIZE	RATING	BODY MATERIAL
KSD-GTF Gate Valve - OS&Y Cast Steel	DN50 - DN1000	PN10, PN16, PN25, PN40 PN63, PN100, PN160	1.4408, 1.4308 1.0619, GS-C25
	2" - 40"	CL150, CL300, CL600 CL900, CL1500	CF8M, CF8, WCB
KSD-NGTF Gate Valve - Non-rising Stem Cast Steel	DN50 - DN1500	PN16, PN25, PN40	1.4408, 1.4308, 1.0619, GS-C25
	-	-	CF8M, CF8, WCB
KSD-PGT Gate Valve - Pressure Sealed Cast Steel	-	-	1.4408, 1.4308, 1.0619, GS-C25
	2" - 36"	CL900, CL1500, CL2500	CF8M, CF8, WCB
KSD-TCGT Gate Valve - Through Conduit Cast Steel	-	-	-
	2" - 20"	CL150, CL300, CL600	WCB
KSD-FGT Gate Valve - OS&Y Forged Steel	DN15 - DN50	PN10, PN16, PN25, PN40 PN63, PN100, PN160	A105
	1/2" - 2"	CL150, CL300, CL600 CL800, CL900, CL1500	A105, F316, F304
KSD-IGT Gate Valve - NRS Resilient Wedge Ductile Iron	DN40 - DN1200	PN10, PN16	GGG50
	1-1/2" - 48"	CL125, CL150	DI
KSD-RIGT Gate Valve - Rising Stem Resilient Wedge Ductile Iron	DN40 - DN1200	PN10, PN16	GGG50
	1-1/2" - 48"	CL125, CL150	DI

Type:
Gate Valve

Nominal sizes:
DN15 - DN1500
1/2" - 48"

Pressure range:
PN10, PN16, PN25, PN40, PN63, PN100, PN160
CL150, CL300, CL600, CL800, CL900, CL1500, CL2500

Temperature:
-29°C to 425°C*
*Please specify the temp when making inquiries.

Material of body:
Stainless Steel, Carbon Steel, Ductile Iron

End connections:
Threaded, Socket-welding, Butt-welding, RTJ Flanged

CERTIFICATES AND APPROVALS

- ISO 15848-1
- PED 2014/68/EU

PRODUCT ADVANTAGES

- Cast steel body construction providing liberal strength to meet most conditions Integral yoke & bonnet.
- Outside screw & yoke, bolted bonnet.
- Single fl exible wedge disc compensates for deformation of body due to pipe stresses.
- Seal welded seat ring eliminates leak path behind rings and for long trouble-free service.

TEMPERATURE	END CONNECTION	F-F LENGTH
-29°C to 425°C	Flanged	EN 558 Series 14, EN 558 Series 15 EN 558 Series 26
-29°C to 425°C	Flanged	ASME B16.10
-20°C to 425°C	Flanged	EN 558 Series 14, EN 558 Series 15, EN 558 Series 26 -
-29°C to 425°C	Flanged	- ASME B16.10
-10°C to 80°C	Flanged	- ASME B16.10
-20°C to 425°C	Flanged, Threaded, Butt-welding Socket-welding, RTJ	EN 558 Series 1, Manufacturer Standard Manufacturer Standard, ASME B16.10
-10°C to 80°C	Flanged	EN 558 Series 3, EN 558 Series 14 ASME B16.10
-10°C to 80°C	Flanged	EN 558 Series 3, EN 558 Series 14 ASME B16.10

KSD-KG Series

Knife Gate Valve

At KLINGER Die Erste, we offer a wide range of knife gate valves designed to meet the unique needs of various industries. Our four different models - Uni-directional Knife Gate valve, Slurry Knife Gate Valve, Through Conduit Knife Gate Valve, and Bi-directional Knife Gate Valve - are each specifically designed for optimal performance in their respective applications.

Uni-directional Knife Gate valve series (UKG, OKG)

The most widely used and affordable option for wastewater treatment. These valves are designed to handle viscous materials and are ideal for applications where conventional valves may be prone to clogging or corrosion.

Slurry Knife Gate Valve series (SKG)

Designed for use in various slurry concentrations and includes a bottom outlet to easily remove impurities pushed out by the gate. These valves are suitable for applications such as mining, pulp and paper, and wastewater treatment.

Through Conduit Knife Gate Valve series (TKG)

Commonly used in the paper industry for fluids containing waste or particles. With a unique design that ensures effective scraping of impurities during opening and closing, these valves can effectively remove impurities from the fluid without letting them enter the valve chamber.

Bi-directional Knife Gate Valve series (BKG)

Features a horizontal structure and tight sealing, making it a top-performing option in the paper industry. With ability to meet higher rated pressure requirements, these valves offer exceptional performance and stability with minimal torque required.

KSD-KG SERIES	SIZE	RATING	BODY MATERIAL
KSD-UKG Knife Gate Valve - Uni-directional	DN50 - DN600	PN10	GGG40, 1.4408
	2" - 24"	CL150	DI, CF8M
KSD-OKG Knife Gate Valve - Uni-directional (Advanced)	DN50 - DN600	PN10	GGG40, 1.4408
	2" - 24"	CL150	DI, CF8M
KSD-SKG Knife Gate Valve - Slurry	DN50 - DN900	PN10	GGG40, 1.4408
	2" - 36"	CL150	DI, CF8M
KSD-TKG Knife Gate Valve - Through Conduit	DN50 - DN400	PN10	GGG40, 1.4408
	2" - 16"	CL150	DI, CF8M
KSD-BKG Knife Gate Valve - Bi-directional	DN50 - DN400	PN10	GGG40, 1.4408
	2" - 16"	CL150	DI, CF8M

Type:
Knife Gate Valve

Nominal sizes:
DN50 - DN900
2" - 36"

Pressure range:
PN10, CL150

Temperature:
-20°C to 150°C

Material of body:
Stainless Steel, Carbon Steel, Cast Iron

End connections:
Wafer, Lug, Double-flanged

CERTIFICATES AND APPROVALS

» PED 2014/68/EU

STANDARDS

» Design and test standard according to MSS-SP81

» DIN EN 10204 3.1 Certificate

» PED 97/23/EC; ISO 9001

PRODUCT ADVANTAGES

» The slurry knife gate valve is designed for heavy duty to isolate flow under the most demanding process conditions. Slurry fluids are thick, filled with solids and often very abrasive.

» The high flow coefficient of this knife gate valve provides high flow rates with low pressure drops.

» Both Rising-Stem and Non-Rising Stem available

TEMPERATURE	END CONNECTION	F-F LENGTH
-20°C to 110°C with EPDM seat	Wafer, Lug	Manufacturer Standard
-20°C to 150°C with PTFE seat	Wafer, Lug	Manufacturer Standard
-20°C to 110°C with EPDM seat	Lug, Double-flanged	Manufacturer Standard
-20°C to 150°C with PTFE seat	Lug	MSS SP 81
-20°C to 110°C with EPDM seat	Wafer, Lug	MSS SP 81

KAD Series

Globe Valve

Our globe valve product line is designed to meet a variety of industrial needs. These valves are suitable for industries such as oil and gas, petrochemical, power generation, and water treatment, ensuring dependable operation and long service life. Ideal for regulating flow or applications requiring the valve to remain partially open, our globe valves provide the quality and performance needed for efficient operations in both standard and demanding environments.

KAD SERIES	SIZE	RATING	BODY MATERIAL
KAD-GBF Globe Valve - OS&Y Cast Steel	DN50 - DN300	PN16, PN25, PN40, PN63	1.4408, 1.4308, 1.0619, GS-C25
	2" - 16"	CL150, CL300, CL600 CL900, CL1500	CF8M, CF8, WCB
KAD-PGB Globe Valve - Pressure Sealed Cast Steel	-	-	1.4408, 1.4308, 1.0619, GS-C25
	2" - 8"	CL900, CL1500, CL2500	CF8M, CF8, WCB
KAD-AGB Globe Valve - Angle (T-pattern)	DN15 - DN300	PN16, PN25, PN40	1.4408, 1.4308, 1.0619, GS-C25
	2" - 12"	CL150, CL300	CF8M, CF8, WCB
KAD-FGB Globe Valve - OS&Y Forged Steel	DN15 - DN50	PN10, PN16, PN25, PN40 PN63, PN100, PN160	A105
	1/2" - 2"	CL150, CL300, CL600 CL800, CL900, CL1500	A105, F316, F304
KAD-FYGB Globe Valve - OS&Y Y-pattern Forged Steel	DN15 - DN50	PN10, PN16, PN25, PN40 PN63, PN100, PN160	A105
	1/2" - 2"	CL150, CL300, CL600 CL800, CL900, CL1500	A105, A105, F316, F304
KAD-IGB Globe Valve - OS&Y Ductile Iron	DN15 - DN300	PN10, PN16	GGG50
	2" - 12"	CL150	DI

Type:
Globe Valve

Nominal sizes:
DN15 - DN300
1/2" - 16"

Pressure range:
PN10, PN16, PN25, PN40,
PN63, PN100, PN160
CL150, CL300, CL600, CL800,
CL900, CL1500, CL2500

Temperature:
-29°C to 425°C*
*Please specify the temp
when making inquiries.

Material of body:
Stainless Steel, Carbon Steel,
Ductile Iron

End connections:
Threaded, Socket-welding,
Butt-welding, RTJ, Flanged

CERTIFICATES AND APPROVALS

» PED 2014/68/EU

SPECIAL DESIGNS

» ISO 15848-1(Optional)

PRODUCT ADVANTAGES

» Globe valves allow precise control of fluid flow.

» Providing strong sealing, reducing leakage risks.

» Suitable for high-pressure applications, withstanding pressure differences.

» Easy to maintain and inspect, reducing downtime quickly.

TEMPERATURE	END CONNECTION	F-F LENGTH
-29°C to 425°C	Flanged, Butt-welding	EN 558 Series 1
		ASME B16.10
-29°C to 425°C	Flanged, Butt-welding, RTJ	Manufacturer Standard
-29°C to 425°C	Flanged	Manufacturer Standard
-29°C to 425°C	Flanged, Threaded Butt-welding Socket-welding, RTJ	EN 558 Series 1, Manufacturer Standard
-29°C to 425°C		Manufacturer Standard, ASME B16.10
-29°C to 425°C	Flanged, Threaded Butt-welding Socket-welding, RTJ	EN 558 Series 1, Manufacturer Standard
		Manufacturer Standard, ASME B16.10
-10°C to 80°C	Flanged	Manufacturer Standard

KAD-BLGB Series

Bellow Sealed Globe Valve

Bolted Bonnet long cycle life bellow globe valves with non-rotating stem for steam and thermal oil applications.

KAD-BLGB SERIES	SIZE	RATING	BODY MATERIAL
KAD-BLGB Bellows Sealed Globe Valve	DN15 - DN300	PN16, PN25, PN40	1.4408, 1.4308 1.0619, GS-C25
	1/2" - 16"	CL150, CL300, CL600	CF8M, CF8, CF3M CF3, WCB

Type:
Bellows Sealed Globe Valve

Nominal sizes:
DN15 - DN300
1/2" - 16"

Pressure range:
PN16, PN25, PN40, CL150, CL300, CL600

Temperature:
-10°C to 425°C*
*Please specify the temp when making inquiries.

Material of body:
Carbon steel, Stainless steel

End connections:
Flanged

CERTIFICATES AND APPROVALS

» PED 2014/68/EU

PRODUCT ADVANTAGES

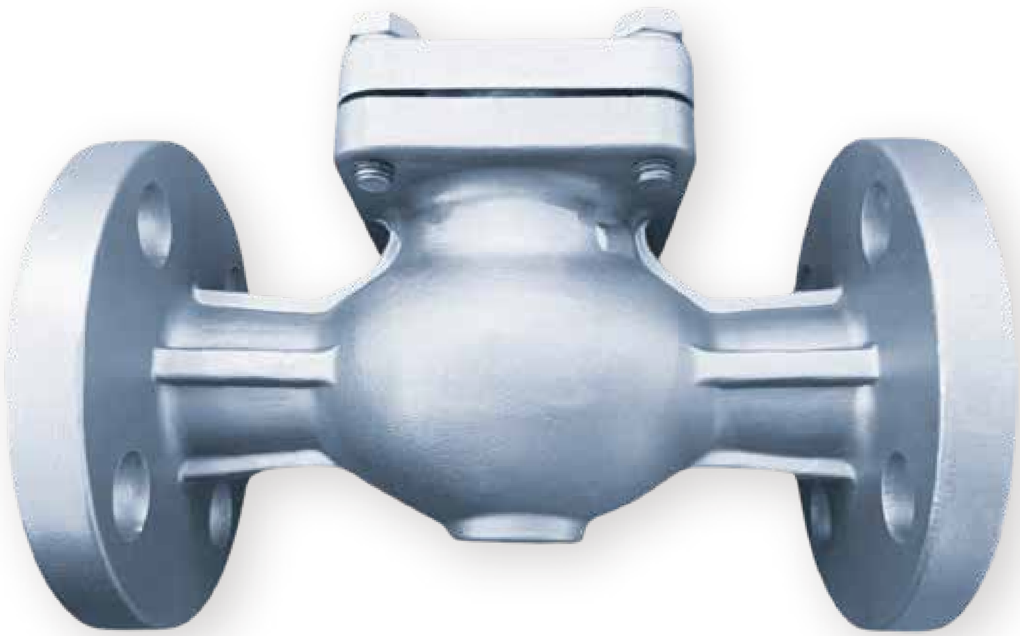
» Bolted bonnet construction with non-rising handwheel
» Non-rotating stem prevents torsion of bellows
» Stem with bellow seal offers reliable tightness
» Seat and disc hardfaced with Cr13
» Fully enclosed spiral wound stainless + graphite gasket
» Position indicator marking as standard

TEMPERATURE	END CONNECTION	F-F LENGTH
-10°C ~ 425°C	Flanged	EN 558 Series 1
		ASME B16.10

KRD Series

Check Valve

KDE's check valve product line includes Swing Type, Lift Type, and Dual-Plate Swing Type valves, Ball Check Valve, Tilting Disc Check Valve designed for various industrial applications. The Swing Type is ideal for standard uses, the Lift Type is suited for high-pressure environments, and the Dual-Plate Swing Type is compact for space-constrained areas. These valves prevent reverse flow, protecting equipment and ensuring reliable operation. Suitable for oil and gas, petrochemical, power generation, and water treatment industries, our check valves offer dependable performance, long service life, and minimal maintenance.



KRD SERIES	SIZE	RATING	BODY MATERIAL
KRD-SCF Check Valve - Swing Type	DN50 - DN600	PN16, PN25, PN40, PN63	1.4408, 1.4308, 1.0619, GS-C25
	2" - 24"	CL150, CL300, CL600, CL900, CL1500	CF8M, CF8, WCB
KRD-TSPC Check Valve - Tilting Type	DN50 - DN600	PN10, PN16, PN25, PN40, PN63, PN100	1.4408, 1.4308, 1.0619
	2" - 24"	CL150, CL300, CL600, CL900	CF8M, CF8, WCB
KRD-LCF Check Valve - Lift Type	DN15 - DN300	PN40	1.4408, 1.4308, 1.0619, GS-C25
	2" - 12"	CL150, CL300, CL600	CF8M, CF8, WCB
KRD-PSC Check Valve - Pressure Sealed Cast Steel	-	-	-
	2" - 16"	CL900, CL1500, CL2500	CF8M, WCB
KRD-SWS Check Valve - Wafer Cast Steel	DN15 - DN300	PN16, PN40	1.4408, 1.4308
	-	-	CF8M, CF8
KRD-DPC Check Valve - Dual Plate Cast Steel	DN50 - DN1200	PN10, PN16, PN25, PN40, PN63, PN100, PN160	1.4408, 1.4308, 1.0619, 1.4309
	1/2" - 66"	CL150, CL300, CL600, CL900, CL1500, CL2500	CF8M, WCB, CF8, CF3
KRD-FSC Check Valve - Swing Type Forged Steel	DN15 - DN50	PN10, PN16, PN25, PN40, PN63, PN100, PN160	-
	1/2" - 2"	CL150, CL300,CL600, CL800, CL900, CL1500	A105, F316, F304
KRD-FLC Check Valve - Lift Type Forged Steel	DN15 - DN50	PN10, PN16, PN25, PN40, PN63, PN100, PN160	-
	1/2" - 2"	CL150, CL300,CL600, CL800, CL900, CL1500	A105, F316, F304
KRD-ISC Check Valve - Swing Type Ductile Iron	DN40 - DN600	PN10, PN16	GGG50
	1-1/2" - 24"	-	DI
KRD-ILC Check Valve - Lift Type Ductile Iron	DN40 - DN300	PN10, PN16	GGG50
	-	-	-
KRD-IDP Check Valve - Dual Plate Ductile Iron	DN50 - DN600	PN10, PN16	GGG50
	1-1/2" - 24"	CL125, CL150	DI
KRD-IBC Check Valve - Ball Type Ductile Iron	DN25 - DN600	PN10, PN16	GGG50
	1/2" - 24"	CL125, CL150	DI

Type:
Swing Check Valve, Lift Check Valve,
Dual-plate Swing Check Valve
Ball Check Valve, Tilting Disc Check Valve

Nominal sizes:
DN15 - DN1200
1/2" - 66"

Pressure range:
PN10, PN16, PN25, PN40,
PN63, PN100, PN160,
CL150, CL300, CL600, CL800,
CL900, CL1500, CL2500

Temperature:
-29°C to 425°C*
Please specify the temp when
making inquiries.

Material of body:
Stainless Steel, Carbon Steel, Ductile Iron

End connections:
Threaded, Socket-welding, Butt-welding,
RTJ, Flanged, Wafer, Lug Double-flanged

CERTIFICATES AND APPROVALS

» PED 2014/68/EU

PRODUCT ADVANTAGES

» Check valves stop reverse flow, protecting system integrity.

» Various types of check valves are available to suit different operational requirements.

» Operates automatically without manual intervention or external control.

TEMPERATURE	END CONNECTION	F-F LENGTH
-29°C to 425°C	Flanged, RTJ	EN 558 Series 48, EN 558 Series 1, EN 558 Series 2
		ASME B16.10
-29°C to 425°C	Wafer, Flanged	EN 558 Series 119, EN 558 Series 120, EN 558 Series 121
		ASME B16.10
-29°C to 425°C	Flanged, RTJ	EN 558 Series 1
		ASME B16.10
-29°C to 425°C	Flanged, Butt-welding, RTJ	-
		ASME B16.10
-20°C to 180°C with VITON seats -20°C to 80°C with NBR seats -20°C to 260°C with Metal seats	Wafer	EN 558 Series 49
		-
-29°C to 425°C with Metal seat -20°C to 180°C with VITON seats -20°C to 80°C with NBR seats	Wafer	EN 558 Series 119, EN 558 Series 120, EN 558 Series 121, EN 558 Series 126
		API 594
-29°C to 425°C	Flanged, Threaded, Butt-welding Socket-welding	EN 558 Series 1, Manufacturer Standard
		ASME B16.10
-29°C to 425°C	Flanged, Threaded, Butt-welding Socket-welding	EN 558 Series 1, Manufacturer Standard
		ASME B16.10
-29°C to 425°C	Flanged	EN 558 Series 48
		ASME B16.10
-10°C to 80°C	Flanged	Manufacturer Standard
		-
-10°C to 80°C	Wafer, Lug, Double-flanged	Manufacturer Standard
		Manufacturer Standard, ASME B16.10
-10°C to 80°C	Threaded, Flanged	EN 558 Series 1
		Manufacturer Standard, ASME B16.10

KFD Series

Y Strainer

Strainers in various configurations help remove debris from your pipelines by directing the flow through a screen to remove contaminants; ideal for liquids, gases and even steam piping systems.

KFD SERIES	SIZE	RATING	BODY MATERIAL
KFD-YSF Y Strainer - Cast Steel	DN40 - DN600	PN10, PN16, PN25, PN40	1.4408, 1.0619, GS-C25
	2" - 16"	CL150, CL300, CL600	WCB, CF8M
KFD-FYS Y Strainer - Forged Steel	DN15 - DN50	PN10, PN16, PN25, PN40, PN63, PN100, PN160	
	1/2" - 2"	CL150, CL300,CL600, CL800, CL900, CL1500	A105, F316
KFD-IYS Y Strainer - Ductile Iron	DN40 - DN600	PN10, PN16	GGG50, GGG40
	1-1/2" - 24"	CL125, CL150	DI

Type:
Y Strainer

Nominal sizes:
DN15 - DN600
1/2" - 24"

Pressure range:
PN10, PN16, PN25, PN40, PN63, PN100, PN160
CL150, CL300, CL600, CL800, CL900, CL1500

Temperature:
-29°C to 425°C*
Please specify the temp when making inquiries.

Material of body:
Stainless Steel, Carbon Steel, Ductile Iron

End connections:
Threaded, Flanged, Socket-welding, Butt-welding

CERTIFICATES AND APPROVALS

» PED 2014/68/EU

PRODUCT ADVANTAGES

» A strainer increases the permeability of the medium and increases the life of valves, it protects pumps, meters and other mechanical equipment.

» In pipelines, strainers are used to shield downstream machineries such as condensers, cooling systems, pumps, compressors, meters, spray nozzles, generators, and steam traps from the adverse impact of sediments, corrosion, pipe scales, or other foreign debris.

» Y type strainers are named because of their shape. They are used for coarse filtration or pre-filtration. Since it has a large filtration area, it can also be used with fine mesh.

» Y type strainers are ideal for water, air, petroleum, steam and other fluids.

» Y type strainers can be installed both vertically and horizontally, with the filter element facing down. The collecting material is located at the lowest point of the strainer. It also has a blow-off nozzle for automatic cleaning.

TEMPERATURE	END CONNECTION	F-F LENGTH
-29°C to 425°C	Flanged	EN 558 Series 1
		ASME B16.10
-29°C to 425°C	Flanged, Threaded, Butt-welding Socket-welding	EN 558 Series 1, Manufacturer Standard
		ASME B16.10, Manufacturer Standard
-10°C to 80°C	Flanged	EN 558 Series 1
		Manufacturer Standard

KPD Series

Plug Valve

A plug valve is a quarter-turn rotary motion manual valve and operates with the same principle used by ball valves. They feature cylindrical or conical plugs with one or more hollow passageways.

KPD SERIES	SIZE	RATING	BODY MATERIAL
KPD-PVF Plug Valve - Sleeved	DN15 - DN600	PN16, PN40	1.4408, 1.4308, 1.0619
	1/2" - 24"	CL150, CL300	WCB, CF8M, CF8, 4A
KPD-PVL Plug Valve - Lubricated	DN15 - DN600	PN16, PN40	1.4408, 1.4308, 1.0619
	1/2" - 24"	CL150, CL300	WCB, CF8M, CF8, 4A

Type:
Plug Valve

Nominal sizes:
DN15 - DN600
1/2" - 24"

Pressure range:
PN16, PN40, CL150, CL300

Temperature:
-10°C to 180°C

Material of body:
Stainless Steel, Carbon Steel, Duplex Alloy

End connections:
Flanged

Accessories:
Extension Bracket

CERTIFICATES AND APPROVALS

» PED 2014/68/EU

SPECIAL DESIGNS

» Quarter-Turn Operation: The cylindrical or conical plug rotates a quarter turn to control fluid flow, with ports at opposite ends of the valve body.

» Versatile Applications: Suitable for directional flow control, handling gas or liquid fuels, slurries, and low-pressure, low-temperature services. Some designs can also handle high-pressure, high-temperature conditions.

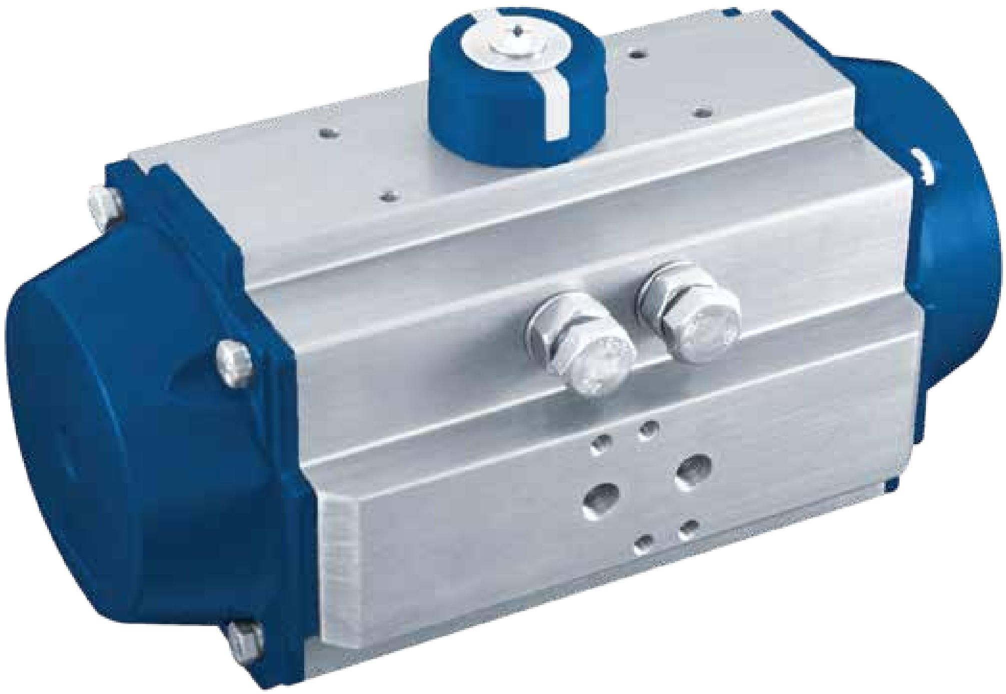
» High-Capacity Performance: Plug valves are ideal for low to moderate vacuum systems and offer better flow control and easier maintenance compared to ball valves.

TEMPERATURE	END CONNECTION	F-F LENGTH
-10°C to 180°C	Flanged	EN 558 Series 1, EN 558 Series 125, Manufacturer Standard
		ASME B16.10
-10°C to 150°C	Flanged	EN 558 Series 1, EN 558 Series 125, Manufacturer Standard
		ASME B16.10

KRP Series

Pneumatic Actuator: Rack & Pinion

KLINGER rack and pinion pneumatic actuator produces linear torque output in compact design utilizing the same body and endcaps for double-acting and spring-return. Commonly found in industries such as automation, manufacturing, and robotics, the rack and pinion actuator offers reliable performance and easy maintenance.



KRP SERIES	OPERATION PRESSURE	TEMP	MATERIAL OF BODY
KRP Pneumatic Quarter-turn Rack & Pinion Actuator	2.5 BAR - 10 BAR (36 PSI - 150 PSI)	-20°C to 120°C* *Please specify the temp when making inquiries.	Extruded Aluminum

ISO 5211 PATTERN	ACCESSORIES	SPECIAL DESIGNS	PRODUCT ADVANTAGES
F03 - F25	Bracket, Adaptors	NAMUR Mounting Hard-anodized Extruded Aluminum Body	Compact Structure Long Life Cycle

KSY Series

Pneumatic Actuator: Scotch York

The Scotch Yoke actuator is a mechanism commonly used to operate valves with larger sizes in industrial applications. It converts linear motion into rotational motion, providing high torque output. This actuator is known for its efficiency in applications requiring precise control and high force. Ideal for use in the oil and gas, petrochemical, and power generation industries, the Scotch Yoke actuator ensures reliable and efficient valve operation.

KSY SERIES	OPERATION PRESSURE	TEMP	MATERIAL OF BODY
KSY Pneumatic Quarter-turn Scotch York Actuator	3 BAR - 6 BAR	-40°C to 80°C -20°C to 150°C	Ductile Iron

ACCESSORIES	SPECIAL DESIGNS	PRODUCT ADVANTAGES
Bracket, Adaptors	Waterproof Protection / Corrosion Resistant Modular Design / Cylinder with Internal Tension Rod	Waterproof Protection / Corrosion Resistant Long Life Cycle

KEA Series

Electric Actuator

An electric actuator is a device used to convert electrical energy into mechanical motion. It includes quarter-turn and linear types, providing rotational or linear movement respectively.
The quarter-turn actuator is ideal for applications requiring a 90-degree rotation, such as operating ball or butterfly valves. The linear type is used for applications needing precise linear positioning, such as controlling gate or globe valves. Electric actuators are known for their precise control, ease of integration with automated systems, and suitability for industries like water treatment, power generation, and manufacturing.

KEA SERIES	CONTROLS	TORQUE/THRUST RANGE	TEMP	MATERIAL OF BODY
KEA-OM Electric Actuator: Quarter-turn	ON/OFF, Modulating (4-20mA, 1-5V, 2-10V)	6 NM - 4500 NM	-30°C to 65°C*	Aluminum Die Casting
KEA-S Electric Actuator: Quarter-turn Spring Return	ON/OFF, Modulating (4-20mA, 1-5V, 2-10V)	50 NM - 360 NM	-30°C to 65°C*	Aluminum Die Casting
KEA-M Electric Actuator: Multi-turn	ON/OFF, Modulating (0-20mA, 4-20mA, 0-5V, 1-5V, 0-10V, 2-10V)	41 NM -700 NM	-30°C to 70°C*	Aluminum Die Casting
KEA-L Electric Actuator: Linear	Modulating (4-20mA, 1-5V, 2-10V)	250 KGF - 2000 KGF	-30°C to 65°C*	Aluminum Die Casting

EA Series

VOLTAGE	DUTY CYCLE	CERTIFICATES AND APPROVALS	COMMUNICATION MODULE	PROTECTIVE COATING
12VDC, 12VAC, 24VDC, 24VAC 110VAC (1-PH), 220VAC (1-PH) 220VAC (3-PH), 380VAC (3-PH), 440VAC (3-PH)	75%, 50%, 30%	CE, CSA, UKCA NEMA type 4X, 5 & IP67 Optional: ATEX	Modbus RTU RS485	Standard: C3, Optional: C4, C5
24VDC, 24VAC, 110VAC (1-PH) 220VAC (1-PH), 220VAC (3-PH) 380VAC (3-PH), 440VAC (3-PH)	50%, 30%	CE, CSA, UKCA NEMA type 4X, 5 & IP67 Optional: ATEX	Modbus RTU RS485	Standard: C3, Optional: C4, C5
220VAC (1-PH) 220-415VAC (3-PH)	Class A & B, S2-15 min Class C: 1200 starts per hour	CE, CSA, UKCA NEMA type 4X, 5 & IP67 Optional: ATEX	Modbus RTU RS485 Profibus DP HART	Standard: C3, Optional: C4, C5
24VDC, 24VAC 110VAC (1-PH) 220VAC (1-PH)	57%	CE, CSA, UKCA NEMA type 4X, 5 & IP67 Optional: ATEX	Modbus RTU RS485	Standard: C3, Optional: C4, C5

VS-II Series

NAMUR type Solenoid Valve

Patented NAMUR type V-Solenoid with 2 piston and 4 pillar poppet valve design provides tight shut-off and long life cycle.

VS-II SERIES	NOMINAL SIZES	OPERATION PRESSURE	TEMP	MATERIAL OF BODY
VSII NAMUR type Solenoid Valve	1/4" NPT and NAMUR Flange	2.5 BAR - 8 BAR (35 PSI - 120 PSI)	-20°C to 60°C	Reinforced Polyamide (PA)

VOLTAGE	DUTY CYCLE	CERTIFICATES AND APPROVALS	SPECIAL DESIGNS	PRODUCT ADVANTAGES
24VDC, 24VAC, 120VAC, 240VAC	100%	PTB / ATEX / CSA / FM	Poppet Valve Design Patented Rotary Sealing Plate	High Flow / Fast Response High Cycle Life Reliability

ALS Series

Limit Switch Box

Simple, rugged visible mechanical device well-suited for a variety of applications.

ALS SERIES	SWITCH TYPE	CABLE ENTRY	TEMP	MATERIAL OF BODY
ALS Limit Switch Box	Mechanical Switches, Magnet Sensors, Proximity Inductive Sensors	BSPP, NPT	-20°C to 85°C	Aluminum with Expoxy Coating, Stainless Steel

INDICATOR OPTION	ACCESSORIES	CERTIFICATES AND APPROVALS	COMMUNICATION MODULE (OUTPUT)	PRODUCT ADVANTAGES
Dome, Flat, Cylinder	ISO Brackets	IP67 / NEMA4, 4X ATEX Ex d IIB T6	AS-i / 4-20mA	Compact / Economical Reliable

Denmark

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