



MPOWER

- MPOWER Engineering, a.s.
- Technology Center, s.r.o.
- Armaturka Vranová Lhota, a.s.

MPOWER Group

REFERENCES

AKSA ENERJI, ANDRITZ, BILFINGER BABCOCK, BRONSWERK, ČEZ, DOOSAN ŠKODA POWER, EKOKEM, ELEKTRIK ÜRETİM, ENDESA S.A., ENEL, ENERGOPROJEKT, FORTUM, FOSTER WHEELER, GAMA, INTERRAO, KEPPEL SEGHERS, KSA ENERJI, MAGNITOGORSK, MOSENERGO, METSO POWER, MOL, MONDI, NORILSK NICKEL, PÖYRY, RENEWA, ROSNEFT, SAVON VOIMA, SIEMENS, SPIG, STORA ENSO, TOMSKNEFTEKHIM, UAB AXIS, U.S. STEEL, VALMET, VALPE COLTD. / POSCO E&C.

We manufacture and supply wide range of **valves** for power, chemical, petrochemical and metallurgical industries

We provide complex engineering and services to meet your individual needs

We succeed thanks to our **extensive production know how**

**TOGETHER
WE ARE STRONG**

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VALVES FOR CONVENTIONAL POWER

Gate valves

Gate valve forged	K12	DN 65-600	PN 63-400
Gate valve forged	K02	DN 65-400	PN 63-400
Gate valve cast	K03	DN 50-1000	PN 16-100

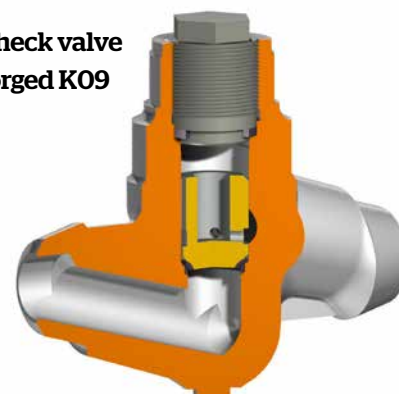
Gate valve
forged K02



Globe / control valves

Globe valve forged / with regulating plug	K01/K91	DN 10-100	PN 63-400
Globe valve KIP forged	K10	DN 6-15	PN 40-630
Globe valve / with regulating plug	K50	DN 15-65/50	PN 63-160
Globe valve cast / with regulating plug	K61 / K73	DN 15-300	PN 16-40
Globe bellow valve cast	K63	DN 15-300	PN 16-40

Check valve
forged K09



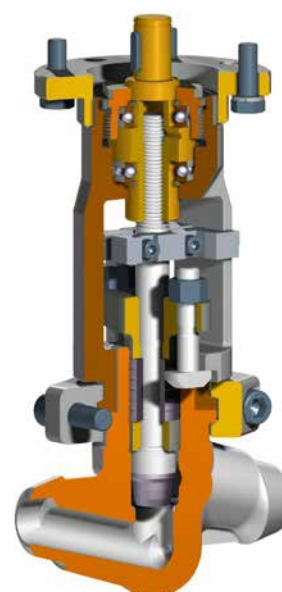
Check valves

Check valve forged / with spring	K09/K99	DN 10-100	PN 63-400
Check valve cast	K66	DN 15-300	PN 16-40

Butterfly valves

Shut-off butterfly valve with double eccentric soft sealing	K06	DN 50-2400	PN 6-25
Shut-off / control butterfly valve with double eccentric (metal sealing)	K16	DN 100-600	PN 6-40

Control valve
forged K91



Swing check valves

Swing check valve forged	K05	DN 65-600	PN 63-400
Swing check valve cast	K08	DN 50-1000	PN 16-100

Ball valves

Trunnion ball valve	K31	DN 50-1000	PN 16-100
Floating ball valve	K30	DN 15-300	PN 16-100

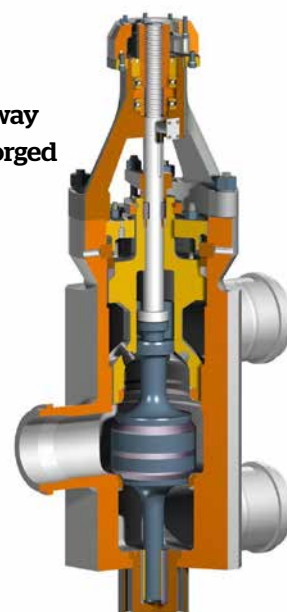
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Special valves

Swing check valve combined (shut-off, regulating)	K18	DN 300-2400	PN 6-25
Pressure lock forged	K07	DN 100-500	PN 63-400
Multistage control valve	K81	DN 25-150	PN 63-400
Check valve with bypass forged	K82	DN 200-300	PN 63-400
Three-way valve forged	K83	DN 200-300	PN 63-400
Shock absorber forged	K85	DN 25-150	PN 40-400
Closing check valve	K88	DN 200-300	PN 63-400

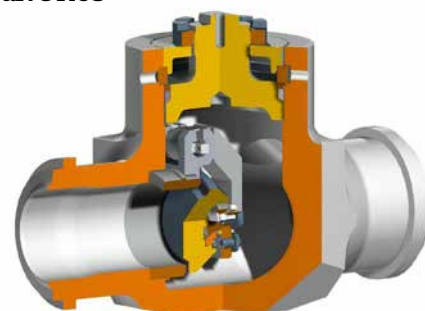
**Three-way
valve forged
K83**



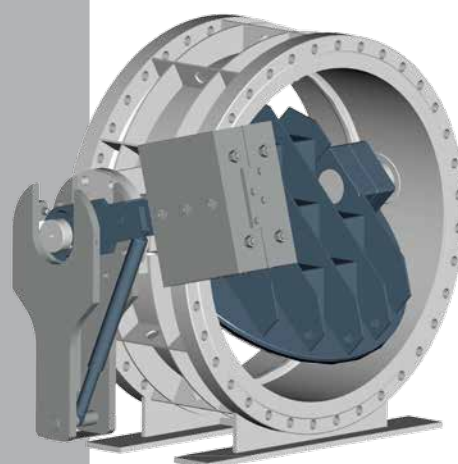
Other

Membrane rupture safety device	DN 15	PN 63-630
Float steam trap, membrane	DN 15-65	PN 16-160
Filter (Y, T, pot strainer)	DN 15-400	PN 16-320
Sight glass	DN 10-200	PN 16-63
Knife gate valve	DN 50-600	PN 10
Check shut-off valve forged	DN 15-50	PN 40
Check shut-off valve cast	DN 32-250	PN 40
Wafer check valve	DN 8-350	PN 6-160
Wafer butterfly valve	DN 50-500	PN 6-40
Control valve	DN 15-150	PN 16-400
Safety valves	DN 20-150	PN 16-40

**Swing check
valve K05**



**Swing check valve
combined K18**



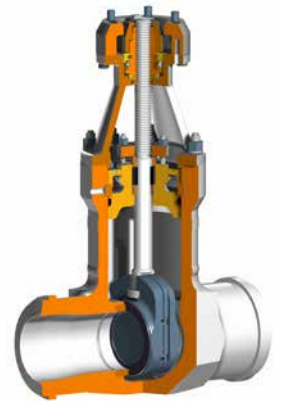
Globe valve K01 / Control valve K91

- DN 10-100, PN 63-400
- Type: But-welded or flanged according to CSN, EN, DIN, ANSI, GOST
- Application: Shut-off valve (K01) or throttling valve (K91) with linear characteristics for water, steam, gases or other operating fluids used for power engineering, chemical industry and nuclear power plants based on material selection. Can be used in normal, explosive, seismic or tropical environments.
- Technical description: Body is die forging with separate body and cast yoke. Body seat is hard welded. Plug and stem are integral, with the sealing surface of the hard weld alloy. Gland can be completed with Live Loading System. For flanged valves, flanges are welded to the body. Shut-off valves can be operated in open or closed position; control valves can be operated in an intermediate position.



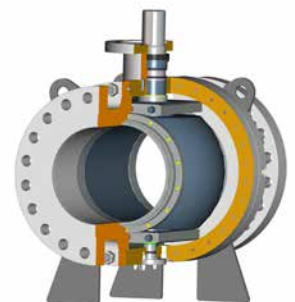
Gate valve K12

- DN 65-600, PN 63-400
- Type: But-welded or flanged according to CSN, EN, DIN, ANSI, GOST
- Application: Shut-off valve intended for water, steam and other operating fluids used for power engineering, chemical industry and nuclear power plants based on material selection. Can be used in normal, explosive, seismic or tropical environments.
- Technical description: Body is forging, yoke is cast or welded. Seats in the body are pressed and welded with sealing weld. Sealing surfaces of the seats and wedge are hardfaced (Stellite). Spindle gland and sealing ring of the pressure seal bonnet are made of expanded graphite. Gate valves can be operated in open or closed position.



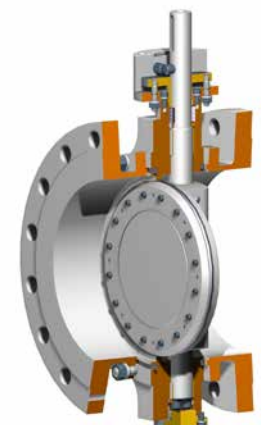
Ball valve K31

- DN 50-1000, PN 16-100
- Type: Flange, butt-welded according to CSN, EN, DIN, ANSI, GOST
- Application: Shut-off valve for gas, oil industry and related industries. Medium: air, non-aggressive natural gas and crude oil, diesel, gasoline, kerosene, etc. Medium temperature -25°C to + 120°C. Ambient temperature -60 to + 55°C. Location above and below ground.
- Technical description: Body of detachable or welded design. Trunnion mounted ball, floating seats. Double sealing valve (double block and bleed). Balls and body made of forgings. Seats are equipped with rubber, polymer or combination sealing. Ball pins are placed in self-lubricating slide bearings. Control pin is sealed with graphite and rubber sealing. Specific requirements: firesafe, antistatic.



Shut-off butterfly valve K06 / K16

- K06: DN 50-2400, PN 6-25 / K16: DN 100-600, PN 6-40
- Type: Wafer, flange or butt-welded according to CSN, EN, DIN, ANSI, GOST
- Application: Shut-off valve designed for entire closing or opening of the medium flow; can also be used for the medium flow rough regulation. Butterfly valve K16— guaranteed sealing class A according to EN12266 in both directions. Can be used for water, air, steam, oils, crude oil, natural gas and other non-aggressive substances.
- Technical description: Designed with double eccentricity. Body material—rolled sheet. Disc closure is eccentrically inserted to the body and attached on the control shaft and the pin, inserted rotatably in the self-lubricating slide bearings. Shaft is sealed with the gland. Material of the sealing metal—metal (metal—PTFE). Pin is sealed with flat asbestos-free sealing. Inner spaces can be provided by protection layers (RILSAN, HALAR,...)



VALVES FOR NUCLEAR POWER

Gate valves

Gate valve	A00	DN 65-800	Pp ÷ 25
Forged gate valve	A01	DN 125-450	Pp ÷ 25
Control gate valve	A05	DN 65-600	Pp ÷ 25

Gate valve
A00



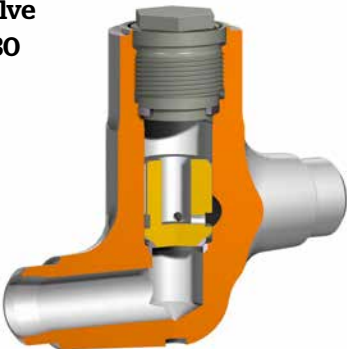
Globe valves

Shut-off bellow valve KIP	A10.0	DN 8-15	Pp ÷ 20
Shut-off bellow valve	A10	DN 10-150	Pp ÷ 20
Shut-off bellow valve (with regulating plug)	A11	DN 10-150	Pp ÷ 20
Shut-off bellow fast-acting valve	A13	DN 10-150	Pp ÷ 20
Check valve	A30	DN 10-50	Pp ÷ 20
Two valve assembly	VS.2	DN 10	Pp ÷ 20
Three valve assembly	VS.3	DN 10	Pp ÷ 20

Shut-off
bellow
valve A10



Check
valve
A30



Check
valve
A43



Valves

Check valve	A43	DN 50-800	Pp ÷ 25
Control valve	A45	DN 800	Pp ÷ 16

ABOUT US

We are the group of Czech manufacturing companies. We have reached leading position in the production of high-pressure valves, special valves, shut-off butterfly valves and ball valves. We interconnect companies in the area of development, technology, engineering, production and service of valves for the energy, chemical, petrochemical and metallurgical industries. We have developed our own technical and production know-how and, together with our own base and developed network of leading European producers, respond to the current needs of our customers.

Custom production

The basis for success is a constant control over the whole process for delivery. Our own production capacities together with top specialists guarantee consistent quality. The actual production is realized within the group of companies Technology Center, s.r.o. and Armaturka Vranová Lhota, a.s.

Development and design

Reliability starts with development. Our technical specialists develop and prepare for production completely new designs of valves, according to specific customer requirements.

Cooperative production

Production in cooperation is ensured by our own technical resources with proven cooperators who meet the highest quality requirements at all stages of production. We work only with reputable companies under long-term business relationships and mutual trust.

Engineering

We offer our customers a comprehensive engineering, i.e. cooperation in the development, installation and commissioning and subsequent maintenance.



Servicing and inspection

High quality and reliability of energy valves requires perfect service support. By means of our own capacities we provide warranty and post-warranty services.

Quality management

Certification and compliance with international standards is the basis on which we build our work. We possess the relevant documents and authorization as for the area of the European Union so as for the Russian Federation and the Customs Union (Belarus, Kazakhstan, Russia). We are certified by TÜV NORD Czech and have quality certificate according to EN ISO 9001:2008 and CSN EN ISO 3834-2.

Production and certification procedures are in compliance with the following standards:

Directive PED 97/23/EC

Legal acts and technical regulations of the Russian Federation and the Customs Union (Belarus, Kazakhstan, Russia). Material design according to standards EN, DIN, ASTM, GOST



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