# **ARAKO**

We have been already 70 years on the market



2023

## **ABOUT US**

ARAKO employs approximately 200 people. We build on the more than 70-year tradition of development and production of industrial valves in Opava, connected with the **SIGMA** concern and the **Minerva** company. Our product portfolio offers valves for nuclear and thermal power plants, chemical and petrochemical plants. We own design and development department and we offer to customers customer service of valves. Nowadays we export to 25 countries and we are specialists in the production of nuclear valves.

## **QUALITY AND CERTIFICATIONS**

We emphasize on quality and modern working environment. We pay attention to increasing customer satisfaction, improving the efficiency of internal processes and producing the highest quality valves. We own a complex of internationally recognized certificates focused on quality management, production processes and the product itself.

#### SYSTEM CERTIFICATES

- ISO 9001:2015 Quality Management System
- ISO 14001:2015 Environmental Management System
- ISO 45001:2018 Occupational Health and Safety Management System
- Directive 2014/68/EU (module H) Assessment of the Quality System
- EN ISO 3834-2 Quality Requirements for Fusion Welding of Metallic Materials

#### PRODUCT CERTIFICATES

- Certificate on EU Revision of the Type (module B)
- Certificates AD 2000-Merkblatt HP 0 / HP 100 R
- Certificate VDI 2440:2000 (TA LUFT)
- Certificate EN ISO 10497:2011 and API Standard 607 (Fire safe)
- EAC Declaration of Conformity
- EAC Certificate of Conformity
- Certificates of Conformity of the type for Ukraine

#### SUPPLIER CERTIFICATES

ČEZ, a. s., Czech Republic; ŠKODA JS, a. s., Czech Republic; PAKS NPP, Hungary; Turkish Atomic Energy Authority Certificate of manufacturer approval (deliveries for nuclear power plant Akkuyu)

## **HISTORY OF ARAKO**

- 1945 Minerva Opava, sewing machine factory predecessor of ARAKO
- **1953** Beginning production of industrial valves
- 1976 Development and production of the first valves for the nuclear industry
- 1980 The company is incorporated into the VHJ SIGMA concern
- 1992 Foundation of ARAKO spol. s r.o.
- **1997** Construction of a new production and storage hall
- 1998 Adoption of a new production program in Germany, including a prototype of the product Gate Valve S38
- 2003 Completion of development and commencement of production Pneumatic Control Valve Y70
- 2005 2008 Delivery of valves for 1-2 units in Kudankulam NPP (India)
- **2006** Completion of development and commencement of production High-Pressure Shut-Off Globe Valve V46.2

## **ARAKO PRODUCTION**



#### **VALVES FOR NUCLEAR ENERGETICS**

We have been specializing in the production of nuclear valves for 43 years and we are able to offer following:

- · Gate Valves
- · Globe Valves with Bellows
- · Quick-Acting Globe Valves with Bellows
- Check Valves
- · Pneumatic Control Valves
- · Globe Valves KIP with Bellows
- · Globe Valves KIP with Packing
- · Regulating Globe Valves

#### Gate Valves | PN 10-630 DN 40-500, 800

Gate valves are used where a minimum flow restriction of working medium is required. We offer a cast and forged Gate Valves with a rising or non-rising stem, with a flexible or split wedge, in a welded or flanged design, with a control: hand wheel, gearbox, electric drive, remote control and more.



#### Globe Valves | PN 10-630 DN 6-200

These valves are mainly used in power engineering, chemical industry and other industries where the functionality is required at high pressures and temperatures. The shut-off valve ensures 100% tightness of the closure. The control design with a profile closing element, usually of a parabolic shape, serves to throttle the working medium on the basis of specific flow parameters of the working substance. Valve bodies are made of cast and forged materials. Because of a longer service life, the hard facing of disc and body is provided with the hard metal of the type Stellite 6th.



## Check Valves, Swing Check Valves | PN 10-630 DN 10-400

These valves protect the pipe section or equipment against harmful kickbacks of the working fluid. They open spontaneously by the pressure of the flowing substance and close by the effect of its back pressure or only by stopping the flow of the working medium. We produce our Check Valves and Butterfly Valves in a welded or flanged design, in a horizontal or vertical piping, both from a cast and forged materials.



#### Strainers | PN 10-320 DN 10-200

They are used to trap mechanical impurities contained in the working medium. Any impurities will remain in the filter element made of special technical fabric. For high pressures, a stainless steel double-layer screen, designed in a carrier cage.



#### Ball Valves | PN 10-63 DN 10-150

Industrial valves are bi-directional, designed to fully open or close the flow of the working medium. Three-piece construction connected with bolt srews, allows easy repair without the need to remove flanges. Tightness is ensured by a floating ball, housed in PTFE seats.



#### Others

In our portfolio we also include Blow-Down and Continuous Blow-Down Valves, and Special Valves, which is Energy reducer M25. They consist of a multi-stage body, with a stable system of orifice plates and vortex chambers, in which very high pressure drops are reduced, according to exact customer requirements.

2022 Expanding our product portfolio for valves for nuclear energetics

2020 ARAKO is undergoing rebranding and changing its exiting Logotype

2016 - 2018 Confirmation of contracts for the supply of valves for projects Akkuyu NPP,

Paks NPP, El Dabaa NPP

2010 - 2016 Delivery of valves for 3-4 units in Mochovce NPP (Slovak Republic)

2010 - 2013 Extensive modernization of production facilities

2010 Completion of development and commencement of production Forged Gate Valve S43

2008 Completion of development and commencement of production Blow-Out and Pickling

Device - special for SIEMENS

2007 ARAKO becomes part of the group Atomenergomash, engineering division of ROSATOM

## **OUR SERVICES**

#### Service and production valves Industrial valve development Product cooperation

METALWORKING:

- lathe-turning
  - milling
  - grinding

WELDING
HEAT TREATMENT
METAL BLASTING
PAINTING
PRESSURE
(including nuclear production)

## **ARAKO FACTS**

#### ARAKO spol. s r.o.

Legal form: Limited liability company Identification number: 47152371 Founded in: 1992

#### STATUTORY AUTHORITY OF ARAKO

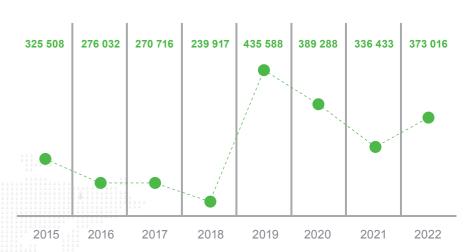
Managing director: ROVSHAN ABBASOV

#### **EXECUTIVE MANAGEMENT:**

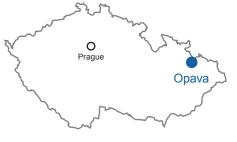
Julia Dolgusheva **Executive Director** Jaromír Petřkovský Production Director Patrik Chruňák **Quality Director** Petr Hlaváč Commercial Director Pavlína Koligová Personnel Director **Purchasing Director** David Stanjura Lenka Kavanová **Finance Director** Jegor Kirjanov **Project Director** Martin Klimša Chief Designer

## **ARAKO NUMBERS**

Total revenue (in thousands of CZK)







## REFERENCES

### **NUCLEAR POWER PLANTS**

## THERMAL POWER PLANTS, CHEMICAL, PETROCHEMICAL, GAS INDUSTRY

SIEMENS

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CZECH REPUBLIC	TEMELÍN NPP	CZECH REPUBLIC	PRUNÉŘOV II / Power station
	2 x 1000 MW, VVER 1000		TUŠIMICE II / Power station
	DUKOVANY NPP		LEDVICE / Power station
	4 x 510 MW, VVER 440 ČEZ ENERGOSERVICE S.R.O.		STRAKONICE / Heating plant
	I & C ENERGO A.S.		TRMICE / Heating plant
SLOVAK REPUBLIC	MOCHOVCE NPP		ZEVO CHOTÍKOV / Waste incineration plant
SLOVAR REPUBLIC	2 x 470 MW + 2 x 440 MW, VVER 440		DALKIA, ČEZ, ŠKODA JS, ČEPRO,
	JASLOVSKÉ BOHUNICE NPP		UNIPETROL, PLYNOSTAV, MND
	2 x 560 MW, VVER 440	SLOVAK REPUBLIC	SES TLMAČE, SLOVENSKÉ
RUSSIAN FEDERATION	ROSTOV NPP		ELEKTRÁRNE, U. S. STEEL KOŠICE,
	4 x 1000 MW, VVER 1000		SLOVNAFT
	KOLA NPP	POLAND	ELEKTROWNIE WARSZAWSKIE, ORLEN,
	4 x 440 MW, VVER 440		PERN S. A., IDS-BUD S. A., PSJ
	BALAKOVO NPP		HYDROTRANZIT
	4 x 1000 MW, VVER 1000	GERMANY	SIEMENS, SHELL, LINDE,
	BILIBINO NPP		STEINMUELLER BABCOCK,
	4 x 12 MW, EGP-6		SCHROEDER VALVES,
	NOVOVORONEZH NPP		LYONDELLBASELL, VINNOLIT, AREVA
	1 x 417 MW, 1x 1000 MW, 2x 1200 MW,		SIEKMANN ECONOSTO
	VVER 440, VVER 1000, VVER 1200	■ NETHERLANDS	KLINGER B.V., AVK NEDERLAND BV
	KALININ NPP	AUSTRIA A	OMV, BDI – BIOENERGY INTERNATIONAL AG,
	4 x 1000 MW, VVER 1000 1111 1111 1111 1111 1111 1111 11		RKG ENERGIETECHNIK GMBH
	3 x 1000 MW, 1x 1200 MW, RBMK 1000.	FRANCE	SERIC TECHNOLOGIE
	VVER 1200	RUSSIAN FEDERATION	KONAKOVSKAYA GRES / Thermal power plant
	SMOLENSK NPP	A A A A A A A A A	SREDNEURALSKAYA GRES
	3 x 1000 MW, RBMK 1000		Thermal power plant
	KURSK NPP		SCHATURSKAYA GRES / Thermal power plant
	4 x 1000 MW, RBMK 1000		REFTINSKAYA GRES / Thermal power plant
	BELOYARSK NPP		
	1 x 600 MW, 1 x 800 MW, BN - 600, BN - 800		YUZNOURALSKAYA GRES / Thermal power plant NIZNEVARTOVSKAYA GRES
UKRAINE	ROVNO (RIVNE) NPP		
	1 x 420 MW + 1 x 415 MW + 2 x 1000 MW,		Thermal power plant
	VVER 440, VVER 1000		LUKOIL, GAZPROM, WASTE INCERION
	ZAPOROZHYE NPP		PLANTS IN THE MOSCOW REGION
	6 x 1000 MW, VVER 1000	BELARUS	MINERAL WAX PLANT JSC,
	KHMELNYTSKYI NPP 2 x 1000 MW, VVER 1000		AZOT GRODNO / Chemical power plant
	SOUTH UKRAINE NPP	KAZAKHSTAN	PAVLODARSKAYA / Thermal power plant
	3 x 1000 MW, VVER 1000	SWEDEN	VIMMERBY / Biomass power plant
BULGARIA	KOZLODUY NPP		ABB, TIDAHOLMS ENERGI AB
_	4 x 440 MW + 2 x 1000 MW, VVER 440,	UNITED KINGDOM	BIRMINGHAM / Biomass power plant
	VVER 1000		VALVEPRO LIMITED
	BELENE NPP	• TURKEY	SOMA, AFSIN ELBISTAN, YATAGAN,
	2 x 1000 MW, VVER 1000		YENIKÖY, KEMERKÖY, TUNCBILEK,
BELARUS	BELARUSIAN NPP		Thermal power plants
	2 x 1200 MW, VVER 1200	BANGLADESH	SIKALBAHA / Gas power plant
INDIA	KUDANKULAM NPP	ROMANIA	CE OLTENIA - ROVINARI / Thermal power plant
	4 x 1000 MW, VVER 1000, VVER 1200		TURCENI / Thermal power plant
	KAIGA NPP		CRAIOVA I + II / Thermal power plant
	2 + 2 x 220 MW, PHWR		ISALNITA / Thermal power plant
	RAJASTHAN NPP 4 x 220 MW, 1 x 200 MW, PHWR		ELCEN
<b>L</b> ITHUANIA	IGNALINA NPP	CHINA	SHANXI DATONG NO 2 / Thermal power plant
ETITIO/INI/C	2 x 1300 MW, RBMK 1500		GUODIAN YUYUAN / Thermal power plant
HUNGARY	PAKS NPP		DATANG LINZHOU / Thermal power plant
	2 x 500 MW, 2 x 470 MW, VVER 400		JIAOZUO WANFANG / Thermal power plant
CHINA	TIANWAN NPP	BULGARIA	MARITSA 1 / Thermal power plant
	2 x 990 MW, 1 x 1050 MW, VVER 1000	<b>LITHUANIA</b>	AB LIFOSA / Chemical power plant
BANGLADESH	ROOPPUR NPP	KUWAIT	SHUWAIK POWER / Distillation station
	2 x 1200 MW, VVER 1200		AZ ZOUR SOUTH / Thermal power plant
• TURKEY	AKKUYU NPP		DOHA WEST / Thermal power plant
	4 x 1200 MW, VVER 1200	<b>→</b> FINLAND	OY KONWELL
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