

Nuclear Power

MPOWER

Presentation of MPOWER Group and its activities in the field of nuclear power



together we are strong

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About us

MPOWER

- MPOWER group integrates companies in the sphere of development, technology, engineering, production and maintenance of **valves for both nuclear and conventional power**.
- MPOWER continues the tradition of producing industrial valves of the "SIGMA Modřany" and possesses **unique technical and manufacturing know-how**.
- **Own development, technology, engineering and manufacturing facilities** along with the developed network of manufacturing cooperation allows to respond flexibly to individual customer needs.
- Group's ambition is to continue to develop its position in the segment of **high-pressure and nuclear valves**.
- The company's long-term objective is **to provide complex solutions of supplies for power and engineering companies**, including design, construction and calculation works, a comprehensive range of valves, a modern manufacturing base and service and repairs directly at the customers premises.
- **Total number of employees: 230** (150 of those working in production).
- **Total annual revenues: 500 mil. CZK**

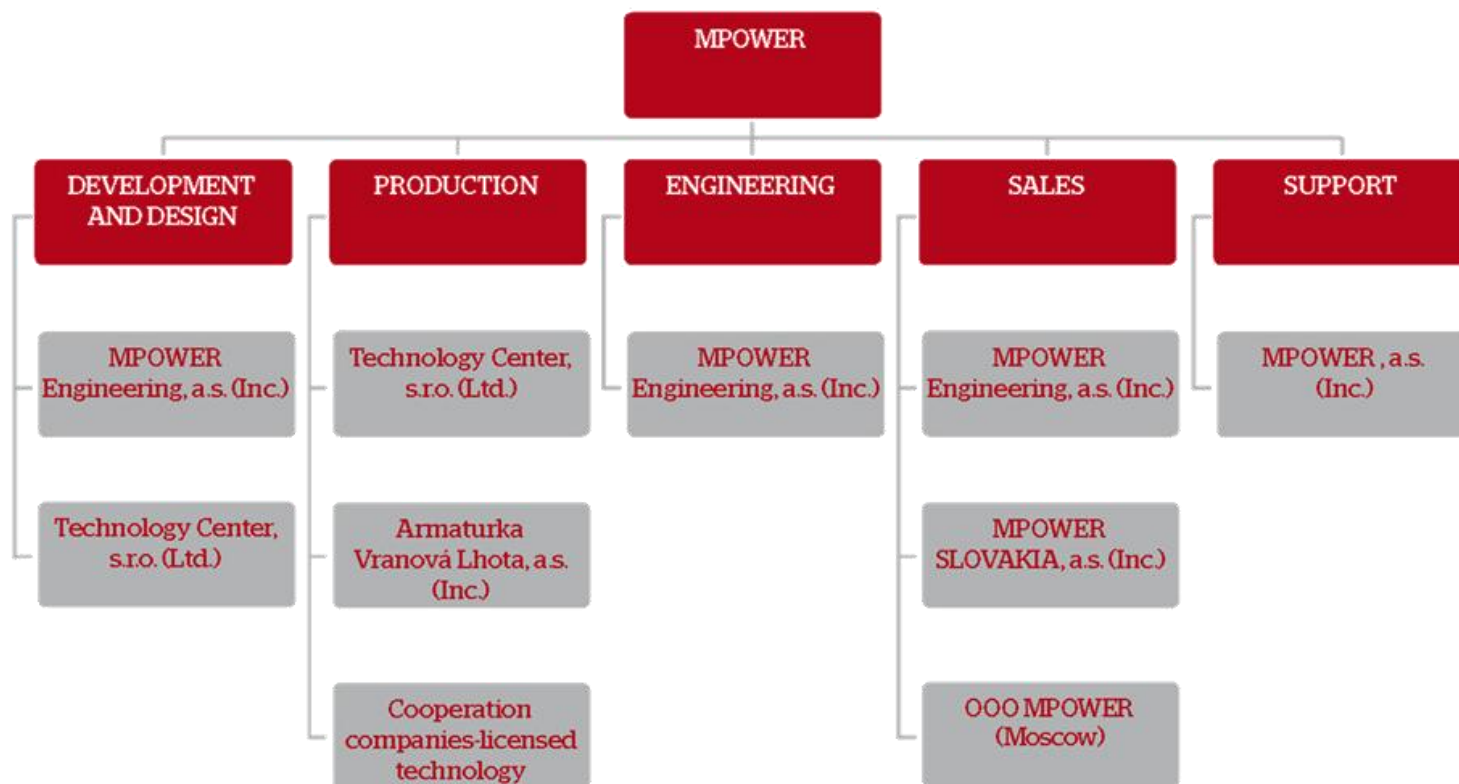


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Structure of MPOWER





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Products - summary

Description	Valve Types for Conventional Power	DN	PN
GLOBE VALVES			
Globe valve	K01, 218, 218M, 218S, 430, 430S, 450, 450M, 450S, 530	10-300	40-400
Control valve	K91, 228, 430R, 430SR, 450R, 450SR, 530R, 530SR	10-300	40-400
Check valve	K09, K99, 292, 292S, 444, 444S, 464, 464S, 564, 564S	10-300	40-400
Relief valve	K89	15	63-630
GATE VALVES	K02, S38	40-500	16-400
VALVES	K02, K06, L10	40-1600	6-400
STRAINERS	822, 822S, 831, 831S	15-300	40

Description	Valve Types for Nuclear Power	DN	PN
GLOBE VALVES	A10.O.KT, A10.KT, A11.KT, A13.KT, A30.KT, VS2.KT, VS3.KT	6-150	40-250
GATE VALVES	A00.KT, A01.KT, A05.KT	65-800	40-250
VALVES	A43.KT, A45.KT	50-800	40-250

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Production Capacities

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Technology Center, s.r.o.



Valves

- Shut-off butterfly valves K06
- Ball valves
- Shut-off valves with metal-metal sealing

Centre for valves development and design

**Armaturka Vranová
Lhota, a.s.**



Gate Valves, Valves

- Gate valves K02 (DN 65-450, PN 63-400)
- Swing check valves K05 (DN 65-450, PN 63-400)
- Gate valves A00.KT, A01.KT, A05.KT (DN 65-500, PN 40-250)
- Check valves A43.KT (DN 50-350, PN 40-250)

LDM, spol. s r.o.



Bellow Globe Valves

- Shut-off bellow valves A10.KT (DN 10-150, PN 40-250)
- Control bellow valves for rough linear regulation A11.KT (DN 10-150, PN 40-250)
- Check valves A30.KT (DN 10-50, PN 40-250)



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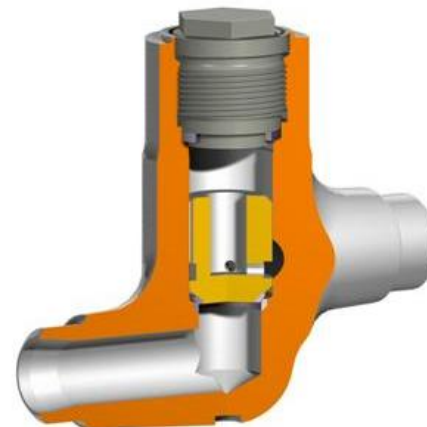
Gate Valves for NP



Type Marking	Valve Type	DN	PN
A00.KT	Gate valve	65-350	40-250
A00.KT	Gate valve	400-600	63-100
A00.KT	Gate valve	400	120
A00.KT	Gate valve	700-800	160
A01.KT	Quick-acting valve	125-350	40-250
A01.KT	Quick-acting valve	450	100
A05.KT	Control valve	65-350	40-250
A05.KT	Control valve	400-600	63-100
A05.KT	Control valve	400	160



Globe Valves for NP

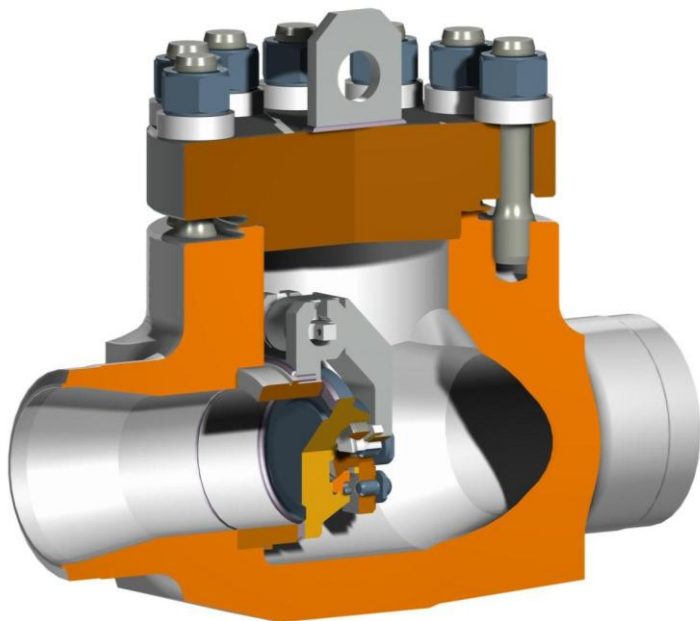


Type Marking	Valve Type	DN	PN
A10.O.KT	Shut-off bellow valve KIP	6-15	40-250
A10.KT	Shut-off bellow valve	10-150	40-250
A11.KT	Shut-off bellow valve for rough regulation	10-150	40-250
A13.KT	Shut-off bellow fast-acting valve	10-150	40-250
A30.KT	Check valve	10-50	40-250



Valves for NP

Type Marking	Valve Type	DN	PN
A43.KT	Check valve	50-350	40-250
A43.KT	Check valve	800	160
A45.KT	Control valve	800	160





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Official letters

ОАО „Atomenergoproekt“



14.10.2011
На №МРР-11-120

от 02.09.2011

Техническому директору
ООО «ЭМПАУЭР Инжиниринг»
И. Дьябачу

факс (495) 797-34-90
Москва

Количество листов, включая
сопроводительное письмо:

О согласовании ТУ 422-24-43/09 для
применения на российских АЭС

ОАО «Атомэнергoproект» согласовывает откорректированные в соответствии с
нашими замечаниями технические условия ТУ 422-24-43/09 «Задатки» (электронная
версия от 11.10.2011) для применения на российских АЭС.

Просим направить в наш адрес учетный экземпляр согласованных ТУ 422-24-43/09.

Первый заместитель генерального директора
директор по инжинирингу

О.С. Степанюк
(499)263-83-43



25.06.2009 № 40.1/15031
на № 40.09-003 от 20.02.09

ООО «МОСТРО»
Генеральному директору
Н.В. Демидову

ООО «Мостро Инжиниринг»
Генеральному директору
В.Н. Мусихину

О согласовании технических условий

Технические условия ТУ 422-24-41/09 ред.2009 на клапаны сильфонные,
ТУ 422-24-43/09 ред.2009 на задвижки и ТУ 422-24-47/09 ред.2009 на затворы
обратные согласовываем.

С уважением,
Первый заместитель директора

Ю.А. Иванов

А.А. Саулин
т. 421-79-64

Вн отдел Адресат	Фамилия	Замечания к тексту				Печать			
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		✓							



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Selection from references

Conventional Power

Operator	Year
Voronezhskaya TEC	2009
OA0 «Magnitogorskij Metallurgicheskij Kombinat»	2009
TEC-7 Nevskij Filial OA0 «TGK-1»	2009
TEC-22 Juzhnaya	2009
TEC-27 Moscow	2009
Pravoberezhnaya TEC-5	2010
Utilizacionnaya TEC Novolipetskovo Metallurgicheskovo Kombinata	2010
Adlerskaya TEC	2011
OA0 «GMK Norilskij Nickel»	2011
Pervomajskaya TEC-14	2011
Haranorskaya GRES	2011



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Selection from references

Nuclear Power



Operator	Year
Rostovskaya NPP	2008
Kurskaya NPP	2008
Kolskaya NPP	2009
Smolenskaya NPP	2009
Mochovce NPP (3rd, 4th unit)	2010 - 2012



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Examples of completed projects

Rostovskaya NPP (2008)

- 300 pcs. of valves
- Types of delivered valves: shut-off gate valves (DN 65-500, Pp 4-18 Mpa), shut-off quick-acting gate valves (DN 300, Pp 18 Mpa), gate valves and swing check valves for system SAOZ (DN 125, DN 300, Pp 18 Mpa), swing check valves (DN 100-300, Pp 14, 18 Mpa), bellow globe valves (DN 10-150, Pp 4 Mpa)

Mochovce NPP (3rd, 4th unit) (2010 – 2012)

Delivery for MODŘANY POWER

- 350 pcs. of valves
- Types of delivered valves: shut-off bellow valves, quick-acting bellow valves (design and production of MPOWER), completing supplies, reconditioning of the valves

Delivery for ŠKODA JS

- 430 pcs. of valves
- Types of delivered valves: bellow valves (design and production of MPOWER)

Delivery for ROEZ

- 6 000 pcs. of valves for 3rd unit
- Expectations of cca 4 000 pcs. of valves for 4th unit
- Types of delivered valves: shut-off below valves „KIP“ (design and production of MPOWER)



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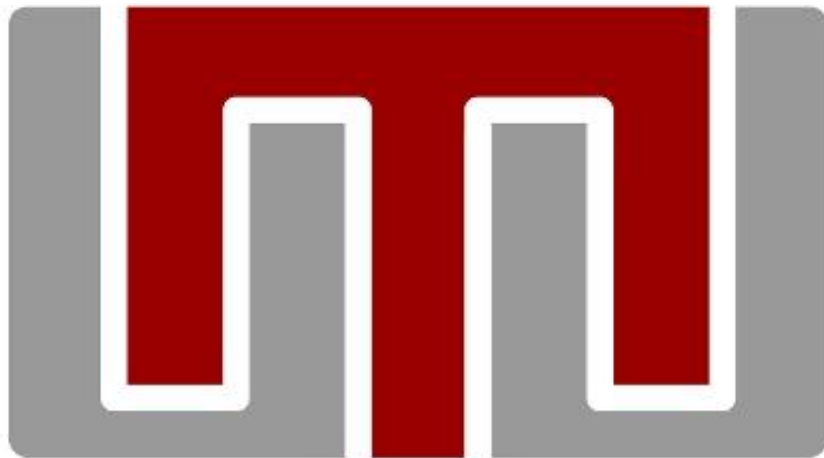
Delivery to the RF

Presumptions of delivery for the nuclear power industry to the Russian Federation

- Historical **experiences** with delivery for nuclear power industry to the RF through the company MOSTRO Engineering (see references)
- Approval of **technical descriptions** by russian projection institutions (see official letters)
- Opened process in order to get **OIT certification** (I.Q 2012)

Capacities of annual delivery for nuclear power industry to the Russian Federation

Type of delivery	Pieces	CZK (mil.)
Shut-off and quick-acting gate valves DN 50-600, up to Pp 20 Mpa	1 200	600
Control gate valves (rough regulation) DN 50-600, up to Pp 20 Mpa		
Swing check valves DN 50-400, up to Pp 20 Mpa		
Valves KIP and valve assemblies DN 10	12 000	90
Shut-off and quick-acting gate valves DN 10-150, up to Pp 20 Mpa	3 000	120
Control globe valves (rough regulation) DN 10-150, up to Pp 20 Mpa		
Check valves DN 10-50, up to Pp 20 Mpa		



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