



JSC «Novogradok gas equipment plant»



Stability·Quality·Safety





JSC «Novogrudok gas equipment plant» is a part of the State Production Association «Beltopgaz» and is one of the largest specialized enterprises in Belarus and the leader on Eastern Europe market for the production of a wide spectrum of gas equipment.

The date of the company's foundation is considered to be 1960, when the Metalist plant was established in Novogrudok.

In 1966, «Metalist» was renamed to «Novogrudok Gas Equipment Plant», it specialized in the production of household gas cylinders and shut-off and reducing valves to be used with them.

In the future, the plant started to produce powder fire extinguishers of the injection type.

In 1989, according to the market demands, a production of a set of gas-cylinder equipment for converting passenger vehicles to liquefied petroleum gas was started. This product has become the basic model for the further development of many modifications of gas cylinder equipment for cars and trucks operating on both liquefied petroleum and compressed natural gas.

Since 1995, the company has been producing membrane-type gas meters, in 2014 the company developed also a production of gas meters equipped with an electronic thermal compensation unit.

Steel cylinders production is fundamental at the plant. The volume of production of household gas cylinders has significantly increased with the commissioning of a robotic welding assembly line since 2011. This modern equipment allows us to manufacture products that meet European standards.

Since 2009 «Novogrudok Gas Equipment Plant», which in the early 2000s has registered a trademark «NOVOGAS», started to serially manufacture another widely demanded type of automobile



▲ Robotized welding line of cylinders 5l, 12 l and 27 l



▲ Milling machining center



▲ Screen printer on gas cylinders



▲ Plasma cutting of metal



▲ Polymer painting line for gas European tanks

LPG gas tank, that of toroidal shape to be installed into the spare wheel compartment. The development of the production of toroidal cylinders on a robotic welding assembly line has allowed since 2015 to significantly expand the range of the above-mentioned tanks.

The company's products are certified not only according to the requirements of the Technical Regulations of the Customs Union, but also for compliance with the rules of the European Union.

Since 2003, the company has implemented a quality management system for the design and manufacture of equipment running on gas fuel and its components, pipeline and gas fittings, fire extinguishing equipment, equipment for storing and transporting compressed air, which meets the requirements of STB ISO 9001-2009.

Quality and safety and health management system that meets the requirements of STB 18001-2009 has also been implemented and certified.

The environment management system (ESM) has also been implemented and certified for compliance with the requirements of STB ISO 14001-2005

Today JSC «Novogrudok Gas Equipment Plant» (NOVOGAS) is one of the dynamically developing highly specialized enterprises in Republic of Belarus which manufactures a wide range of gas equipment:

- LPG gas cylinders for household applications
- toroidal and cylindrical type automobile LPG tanks
- shut-off and control valves (LPG cylinder valves, oxygen and other technical gases cylinder valves, ball valves, water valves, gas pressure regulators)
- equipment for converting motor cars and lorries to liquefied petroleum gas and compressed natural gas (LPG/CNG)
- accessories for gas stoves "GEFEST"
- gas meters
- powder type fire extinguishers
- consumer goods

The company has a high engineering and production potential, modern technological processes: laser cutting of metal, robotic assembly welding, cold and hot stamping, die casting of aluminum and brass alloys, processing of parts at CNC machining centers, plastic casting, automated rolling of shells, polymer painting, «end-to-end design» and manufacturing of tooling based on 3D models.

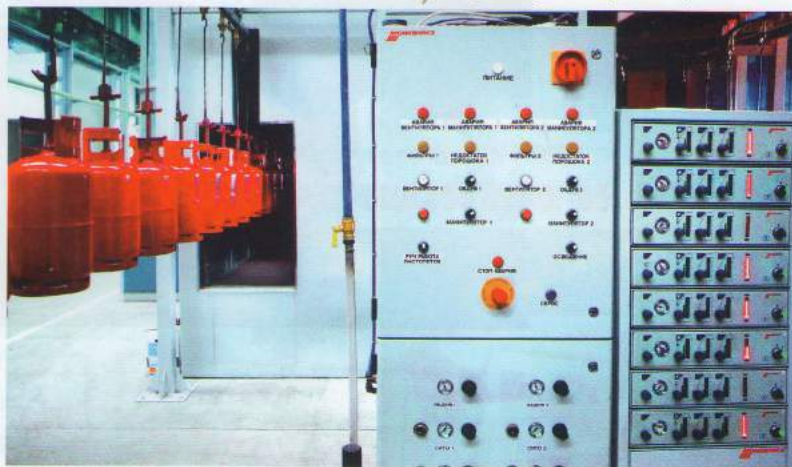
Robotized toroidal tanks production line ▼





▲ Robotized toroidal tanks production line

▼ Polymer painting line for gas European tanks



Novogas has developed a smelting plant for processing aluminum and brass waste to supply its own production of non-ferrous metal casting.

The company's fleet of equipment allows us to implement modern technical ideas that can meet the changing demands of the market.

JSC «Novogrudok Plant of Gas Equipment» invites partners for mutually beneficial cooperation in the development of new technologies and the production of modern high-quality products.





JSC "Novogrudok Gas Equipment Plant" produces welded steel cylinders with a volume of 5, 12, 27, 46, 50 and 79 liters. The cylinders are intended for transportation and storage of liquefied petroleum gas (propane, butane and their mixtures).

Characteristics	5 L	12 L	27 L	46 L	50 L	79 L
Propane weight, no more than	2 kg	5 kg	11.4 kg	19 kg	21.2 kg	33 kg
Tank gas pressure, max	1,6 MPa	1,6 MPa	1,6 MPa	1,6 MPa	1,6 MPa	1,6 MPa
Diameter	222 mm	222 mm	298 mm	298 mm	298 mm	298 mm
Height	285 mm	485 mm	595 mm	890 mm	1015 mm	1366 mm
Empty tank weight	4 kg	6 kg	12 kg	18 kg	19 kg	26 kg
Cylinder design					with a hood with a collar	with a collar
Operating temperature			-40°C – +45°C			
Packaging	Cardboard box	Bubble wrap packaging				



The products are certified for compliance with the Directive 2010/35/EU (TPED). We can offer our customers special options, like painting/ marking colour or special marking of their choice which gives extra branding features.

Designed for installation in cylinders for liquefied petroleum gas (LPG) at a pressure of up to 1.6 MPa and are their shut-off device. Also used with LPG cylinders for forklifts running on gas.

TECHNICAL CHARACTERISTICS OF CYLINDER VALVE GLIU.477.00.00-01; -03; -04; -05

Characteristics	Cylinder valve GLIU 477.00.00-01	Cylinder valve GLIU 477.00.00-03	Cylinder valve GLIU 477.00.00-04	Cylinder valve GLIU 477.00.00-05
Mass flow rate of gas at a pressure on the device of 1 MPa, kg / min, not less than			33 kg	
Operating pressure not more than, MPa			1,6	
Leak test pressure, MPa			1,6 ^{0,1}	
Overall dimensions				
Height	100 max	81	178	178
Width	53	54	167	167
Flywheel diameter	45±2	45±2	45±2	45±2
Inlet fitting thread	25E EN ISO 11363-1 W28.8x1/14"	17E EN ISO 11363-1 W19.8x1/14"	17E EN ISO 11363-1 W19.8x1/14"	17E EN ISO 11363-1 W19.8x1/14"
Outlet connection thread			W21,8x1/14" DIN 477 (left)	
Weight, kg, not more than			0,31	
Operating temperature range, °C			(-40...+65)	
Average service life of valves, years, not less			10	

CYLINDER LPG VALVE WITH SAFETY DEVICE

The valves are manufactured in accordance with EN ISO 15995, the safety valve meets the requirements of EN 13953

TECHNICAL CHARACTERISTICS OF CYLINDER VALVES WITH A SAFETY DEVICE GLIU.456.00.00; -05; -06

Characteristics	Cylinder valve with a safety device GLIU 456.00.00	Cylinder valve with a safety device GLIU 456.00.00-05	Cylinder valve with a safety device GLIU 456.00.00-06
Mass flow rate of gas at a pressure on the device of 1 MPa, kg / min, not less than		12,8	
Tank gas pressure, MPa, max		1,6	
Leak test pressure, MPa		0,1 and 2,5	
Operating pressure of the safety valve, MPa		3,5 ±0,5	
Overall dimensions			
Height		86	
Width		56±2	
Flywheel diameter		45±2	
Inlet fitting thread	17E EN ISO 11363-1 W19.8x1/14"	25E EN ISO 11363-1 W28.8x1/14"	17E EN ISO 11363-1 W19.8x1/14"
Outlet connection thread		W21,8x1/14" DIN 477 (left)	
Weight, kg, not more than		0,26	
Operating temperature range, °C		(-40...+65)	
Average service life of valves, years, not less		10	


TOROIDAL TANK

Best suited to the shape and size of a spare wheel, which allows to install a gas tank in a special niche instead of a wheel or in the place of a spare wheel under the bottom of the car.

Automobile toroidal LPG tank (internal flange)

Denomination	Diameter, mm	Height, mm	Capacity, l	Weight, kg	Approval R 67
550x180 - 31 IN	550	180	31	20	E8 67R - 0211330
550x200 - 35 IN		200	35	21	E8 67R - 0211331
550x225 - 41 IN		225	41	22	E8 67R - 0211333
550x240 - 44 IN		240	44	23	E8 67R - 0211334
550x250 - 46 IN		250	46	24	Certified in CIS
550x270 - 50 IN	565	270	50	25	E8 67R - 0211335
565x180 - 33 IN		180	33	22	E8 67R - 0211330
565x200 - 37 IN		200	37	23	E8 67R - 0211331
580x180 - 35 IN		180	35	22	E8 67R - 0211330
580x200 - 40 IN		200	40	23	E8 67R - 0211331
580x220 - 45 IN	580	220	45	25	E8 67R - 0211332
580x240 - 49 IN		240	49	28	E8 67R - 0211334
600x180 - 37 IN		180	37	23	E8 67R - 0211330
600x200 - 42 IN		200	42	24	E8 67R - 0211331
600x220 - 47 IN		220	47	25	E8 67R - 0211332
600x225 - 48 IN	600	225	48	26	E8 67R - 0211333
630x180 - 44 IN		180	44	25	E8 67R - 0211330
630x200 - 49 IN		200	49	26	E8 67R - 0211331
630x220 - 54 IN		220	54	27	E8 67R - 0211332
630x225 - 56 IN		225	56	27	E8 67R - 0211333
630x240 - 60 IN	630	240	60	28	E8 67R - 0211334
630x250 - 63 IN		250	63	29	E20 67R - 010971
630x270 - 68 IN		270	68	30	E8 67R - 0211335
650x180 - 44 IN		180	44	26	E8 67R - 0211330
650x200 - 51 IN		200	51	27	E8 67R - 0211331
650x220 - 56 IN	650	220	56	28	E8 67R - 0211332
650x225 - 58 IN		225	58	28	E8 67R - 0211333
650x240 - 63 IN		240	63	29	E8 67R - 0211334
650x270 - 72 IN		270	72	32	E8 67R - 0211335
680x200 - 56 IN		680	200	56	30
680x225 - 64 IN	225		64	32	E8 67R - 0211333
680x250 - 72 IN	250		72	34	Certified in CIS
680x270 - 79 IN	270		79	35	E8 67R - 0211335
720x180 - 54 IN	180		54	33	Certified in CIS
720x200 - 61 IN	720	200	61	35	Certified in CIS
720x220 - 69 IN		220	69	37	Certified in CIS
720x230 - 73 IN		230	73	37	Certified in CIS
720x240 - 77 IN		240	77	38	Certified in CIS
720x250 - 80 IN		250	80	39	Certified in CIS
720x270 - 88 IN	720	270	88	40	E8 67R - 0211335
720x300 - 98 IN		300	98	42	Certified in CIS

▲ Toroidal LPG tank internal flange

Automobile toroidal LPG tank (external flange)

Denomination	Diameter, mm	Height, mm	Capacity, l	Weight, kg	Approval R 67
550x180 - 31 OUT	550	180	31	20	E8 67R - 0211330
550x200 - 35 OUT		200	35	21	E8 67R - 0211331
550x225 - 41 OUT		225	41	22	E8 67R - 0211333
550x240 - 44 OUT		240	44	23	E8 67R - 0211334
550x250 - 46 OUT		250	46	24	Certified in CIS
550x270 - 50 OUT	565	270	50	25	E8 67R - 0211335
565x180 - 33 OUT		180	33	22	E8 67R - 0211330
565x200 - 37 OUT		200	37	23	E8 67R - 0211331
580x180 - 35 OUT		180	35	22	E8 67R - 0211330
580x200 - 40 OUT		200	40	23	E8 67R - 0211331
580x220 - 45 OUT	580	220	45	25	E8 67R - 0211332
580x240 - 49 OUT		240	49	28	E8 67R - 0211334
600x180 - 37 OUT		180	37	23	E8 67R - 0211330
600x200 - 42 OUT		200	42	24	E8 67R - 0211331
600x220 - 47 OUT		220	47	25	E8 67R - 0211332
600x225 - 48 OUT	600	225	48	26	E8 67R - 0211333
630x180 - 44 OUT		180	44	25	E8 67R - 0211330
630x200 - 49 OUT		200	49	26	E8 67R - 0211331
630x220 - 54 OUT		220	54	27	E8 67R - 0211332
630x225 - 56 OUT		225	56	27	E8 67R - 0211333
630x240 - 60 OUT	630	240	60	28	E8 67R - 0211334
630x250 - 63 OUT		250	63	29	E8 67R - 0211334
630x270 - 68 OUT		270	68	30	E20 67R - 010971
650x180 - 45 OUT		180	45	26	E8 67R - 0211335
650x200 - 51 OUT		200	51	27	E8 67R - 0211331
650x220 - 56 OUT	650	220	56	28	E8 67R - 0211332
650x225 - 58 OUT		225	58	28	E8 67R - 0211333
650x240 - 63 OUT		240	63	29	E8 67R - 0211334
650x250 - 66 OUT		250	66	31	Certified in CIS
650x270 - 72 OUT		270	72	32	E8 67R - 0211335
680x200 - 56 OUT	680	200	56	30	E8 67R - 0211331
680x225 - 64 OUT		225	64	32	E8 67R - 0211333
680x250 - 72 OUT		250	72	34	Certified in CIS
680x270 - 79 OUT		270	79	35	E8 67R - 0211335
720x220 - 69 OUT		220	69	37	Certified in CIS
720x230 - 73 OUT	720	230	73	37	Certified in CIS
720x240 - 77 OUT		240	77	38	Certified in CIS
720x250 - 80 OUT		250	80	39	Certified in CIS
720x270 - 88 OUT		270	88	40	E8 67R - 0211335
720x300 - 98 OUT		300	98	42	Certified in CIS

▲ Toroidal LPG tank external flange

Automobile toroidal LPG tank (full capacity, external flange)

Denomination	Diameter, mm	Height, mm	Capacity, l	Weight, kg	Approval R 67
580x200 - 44 FULL	580	200	44	25	E8 67R - 0211331
720x225 - 75 FULL		225	75	36	Certified in CIS
720x230 - 77 FULL	720	230	77	37	Certified in CIS
720x240 - 81 FULL		240	81	39	E8 67R - 0211334
720x250 - 85 FULL		250	85	40	Certified in CIS
720x270 - 93 FULL		270	93	43	E8 67R - 0211335

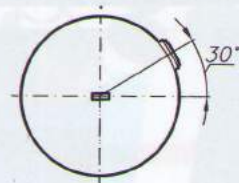
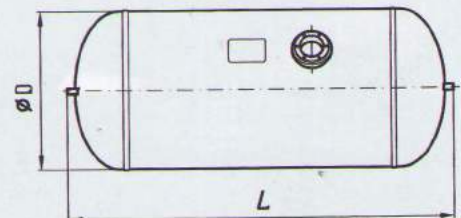
▲ Toroidal LPG tank full capacity

CYLINDRICAL TANK

Cylindrical tanks are mounted on vehicles with a specially prepared mounting equipment in accordance with the size of the cylinder.

Automobile cylindrical LPG tank

Denomination	Diameter, mm	Length, mm	Capacity, l	Weight, kg	Approval R 67
241/35	241	877	35	15	Certified in CIS
241/40	241	997	40	17	Certified in CIS
241/45	241	1120	45	19	Certified in CIS
300/30	300	521	30	14,6	Certified in CIS
300/35	300	600	35	15,8	Certified in CIS
300/40	300	670	40	18	Certified in CIS
300/45	300	750	45	19,5	Certified in CIS
300/50	300	816	50	21	E20-67R-010583EX1
300/60	300	965	60	24	E20-67R-010583EX1
300/65	300	1023	65	25	E20-67R-010583EX1
300/90	300	1442	90	33	Certified in CIS
315/32	315	516	32	15	Certified in CIS
315/40	315	626	40	18	Certified in CIS
315/55	315	820	55	22	E20-67R-010730
315/60	315	886	60	23	E20-67R-010730
315/65	315	953	65	25	E20-67R-010730
315/102	315	1470	102	37	Certified in CIS
315/120	315	1720	120	42	Certified in CIS
360/51	360	630	51	21	Certified in CIS
360/55	360	670	55	22	Certified in CIS
360/70	360	820	70	26	Certified in CIS
360/80	360	923	80	29	Certified in CIS
360/90	360	1023	90	30	Certified in CIS
360/100	360	1123	100	31	Certified in CIS
360/110	360	1230	110	32	Certified in CIS
360/140	360	1540	140	52	Certified in CIS
376/50	376	602	50	19	E20-67R-011047
376/60	376	698	60	23	E20-67R-011047
376/65	376	742	65	24	E20-67R-011047
376/76	376	842	76	27	E20-67R-011047
376/90	376	972	90	32	E20-67R-011047
376/100	376	1061	100	34	E20-67R-011047
376/103	376	1097	103	35	E20-67R-011047
376/105	376	1117	105	35	E20-67R-011047
376/122	376	1263	122	41	Certified in CIS
376/146	376	1490	146	45	Certified in CIS
400/56	400	581	56	24	E20-67R-011048
400/90	400	876	90	27	E20-67R-011048
400/100	400	938	100	33	E20-67R-011048
400/130	400	1203	130	41	E20-67R-011048
400/170	400	1540	170	55	Certified in CIS
400/200	400	1864	200	58	Certified in CIS
490/130	490	841	130	42	E20-67R-011049
490//151	490	948	151	46	E20-67R-011049
490/210	490	1268	210	62	E20-67R-011049
BAG-100	376/300	684	100	47	E20-67R-011106







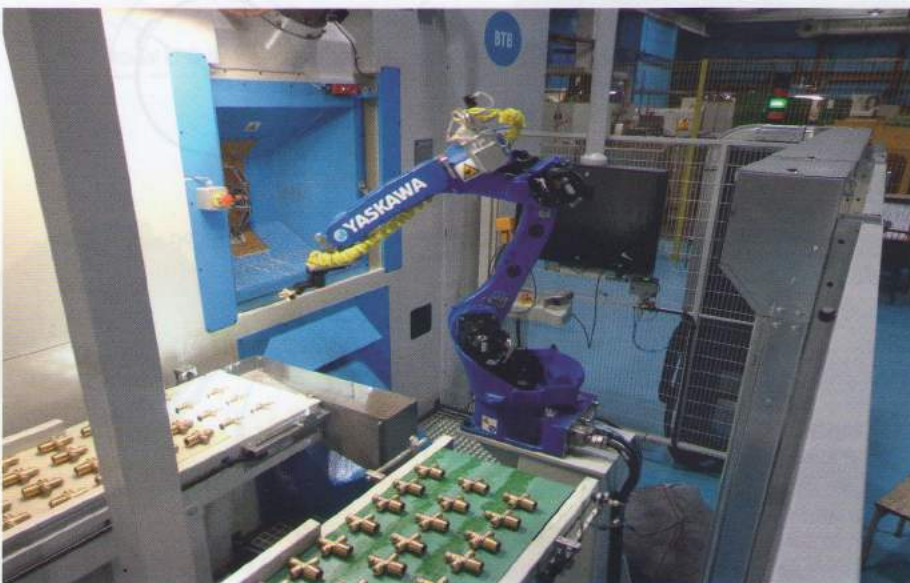
▲ Cylindrical LPG tank

It is possible to paint the cylinders in any color and branding at the request and technical specifications of the buyer.

Is a locking device for cylinders when filling, intended for storage and disposing of oxygen, air, nitrogen and other noncombustible gases

TECHNICAL CHARACTERISTICS OF CYLINDER VALVE GLIU.477.00.00-01; -03; -04; -05

Characteristics	Oxygen cylinder valve VK-1	Oxygen cylinder valve VK-2	Oxygen cylinder valve VK-3	Oxygen cylinder valve VK-4
				
Operating pressure, MPa	20			
Connection	inlet thread W 27,8 outlet thread G3/4-B	inlet thread W 19,2 outlet thread G3/4-B	inlet thread W 19,2 outlet thread W21,8x14/1"BH	inlet thread W 27,8 (inner thread M10x1) with a nozzle; outlet thread G3/4-B
Weight, kg	0,49	0,45	0,42	0,51
packaging (cardbox) pcs	28	28	28	28
Operating temperature range, °C	-50 - +60			
Overall dimensions	59x58x116			



«Dachnik» gas stove

Designed for outdoor cooking, at camping. «Dachnik» gas stove is designed for operation in ambient temperature range of +5°C to +40°C.



Gas cooker «Tourist»

Designed for outdoor cooking, at camping. (Equipped with a gas pressure regulator RDSG).



Gas meters

Designed to measure of the volumetric flow of low pressure gas passing through the gas meters in residential homes and social facilities.



Powder fire extinguishers

Applications: Designed for fighting fires of A, B, C and Y class (electrical installation with voltage of up to 1000 V).



Cylinder gas pressure regulators (RDSG)

Designed to maintain the pressure of gases taken from cylinders within specified limits automatically.



Threaded ball valves

Used as shut-off valves on pipelines for natural gas in air temperature range of -40°C to +50°C and in water temperature range of 0°C to +75°C



Accessories for gas rangers

- Accessories for gas rangers:
- thermoregulator with safety device
 - household burners for gas rangers
 - safety devices



Domestic appliance for preserved food sterilization (autoclave)

Designed for sterilization and preserving of meat, fish, vegetables and other products in natural juice without the use of preservatives.

