

**FIRST-CLASS
OIL INDUSTRIAL EQUIPMENT**



PRODUCT CATALOGUE



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STANDARDS

We design and manufacture in accordance with the requirement of standards. Our manufacturing processes comply with international quality requirements. We are proud to hold INTI certification, ensuring our products meet the highest safety and performance standards.



Row	Subject	Standard
1	General	ISO, IPS
2	Process	API, WWA, BS, ISO
3	Mechanics, Machinery	ASME, ANSI, API, API, BS, Din
4	Material	ASTM, Din, JIS
5	Electrical	IEC, ISA, ISO, API, ANSI
6	Safety	NFPA
7	Management	ISO, PMBOK

SKID MOUNTED EARLY PRODUCTION FACILITY (SM EPF)

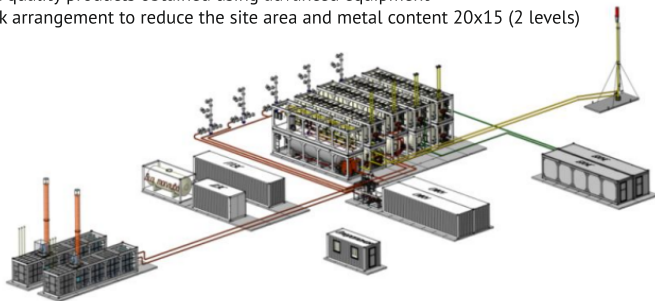
A skid-mounted early production facility is a portable, pre-built plant that starts oil and gas production immediately after a well is drilled.

The equipment documentation development period is 12 weeks. The production period is approximately 32 weeks.



Tasks and functionality:

- Spec quality products obtained using advanced equipment
- Stack arrangement to reduce the site area and metal content 20x15 (2 levels)



Asset development strategy:

- Prompt re-engineering for stable operation in conditions of considerable changes in product properties
- After recovery of reserves – demobilization and move to another field

No.	Equipment Description
1	Separation module
2	Separation module
3	Electrodehydration system
4	Electrodehydration system
5	Stripper column Diameter
6	Crude Indirect Heaters H-1
7	Heating module HM-1
8	Production Oil Tank POT-1
9	Oil tank
10	Oil pumps
11	Gas separator (GS)
12	Metering unit (oil, water)
13	Disposal Water System De-oiling Hydrocyclones Filter Package Storage tank for water Produced Water Pumps Injection Water Pumps
14	Dilution Water System Deaerator package Water booster pumps Dilution water pumps Dilution water tank diameter Water/water heat exchanger HM-w
15	Air cooler AC-1
16	Flare unit
17	Reagent injection unit (Chemicals for main process)
18	Reagent injection unit (Chemicals for Disposal water system)
19	Reagent injection unit (Chemicals for Dilution water system)
20	Steam Generator System
21	Shut off and control valves + pipelines
22	Control cabinet, instrumentation & control system
23	Drainage tank
24	Firefighting Facilities Bi-Zone set
25	Nitrogen station
26	Export pumps P-MP (fluid supply to the consumer)
27	Diesel power plant
28	Gas piston power plant
29	Air compressor
30	Toolbox

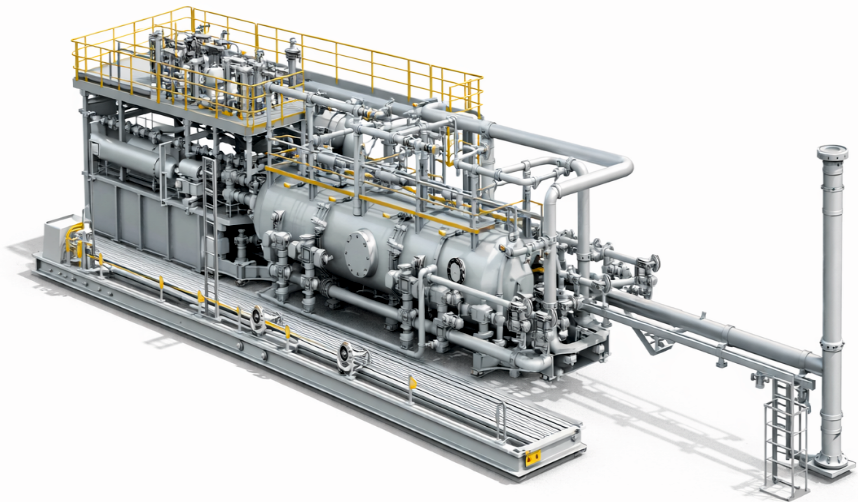
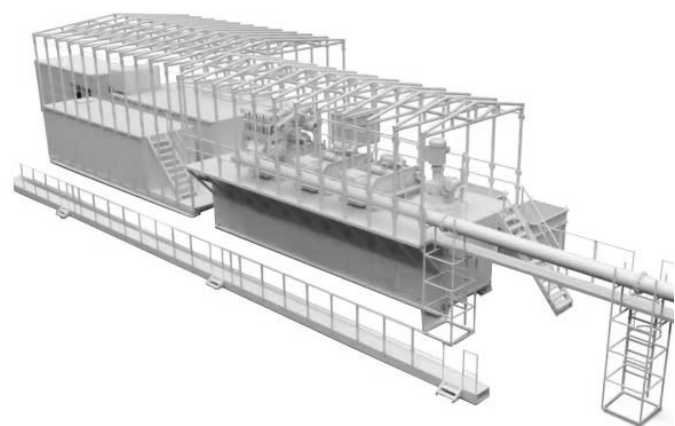
STATIONARY CIRCULATION SYSTEMS

for mud purification and mixing

Stationary circulation system is one of the major components of the drilling rig. This equipment is designed to collect, purify and degas mud for the subsequent injection into the well.

The equipment documentation development period is 12 weeks.
The production period is approximately 32 weeks.

No.	Equipment Description
1	Pump pressure and suction lines
2	Gutters
3	Settlers
4	Instrumentation and controls
5	Auxiliary equipment
6	Multi-layer tent
7	Mud dosing and mixing units
8	Additional tank units
9	Technical water tanks
10	Mud purification, regeneration and degassing system
11	Purification, recovery and degassing system for bore mud



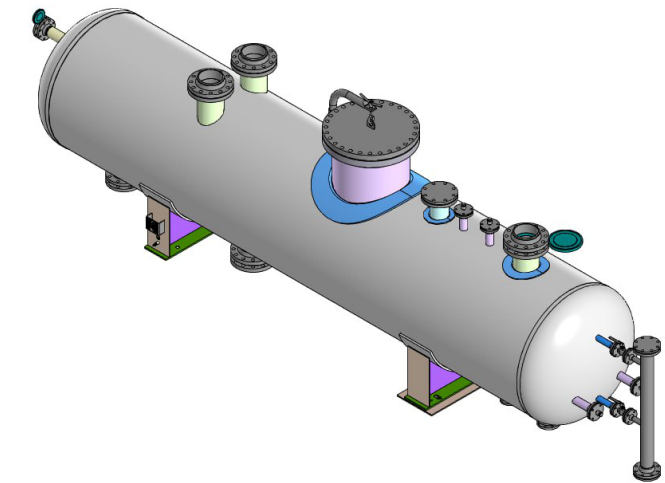
GAS SEPARATORS

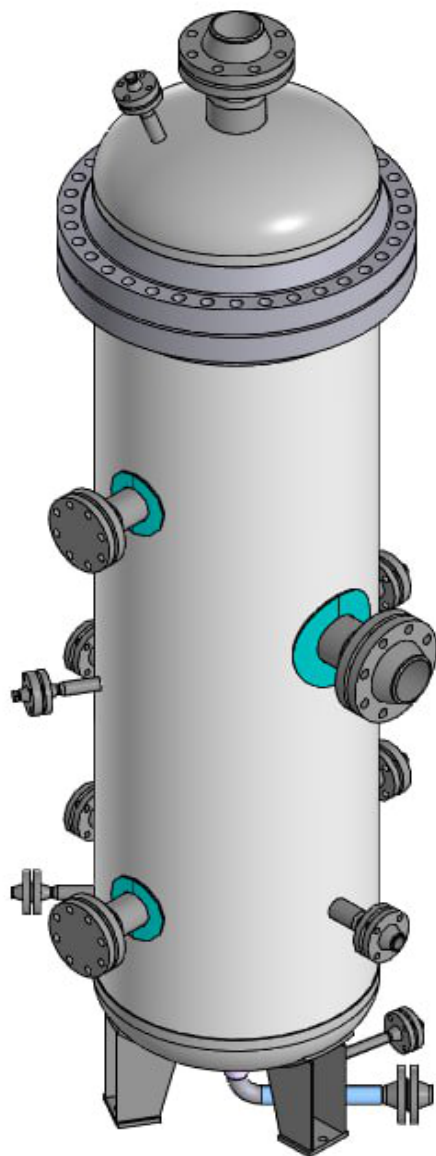
The gas separator (oil and gas separator) is applied at the first-stage of liquid and gas dividing, and for oil purification in industrial units. The separator is designated for processing low gas liquids. It is used at oil and gas production sites, gas-distributing units and power complexes.

The equipment documentation development period is 12 weeks. The production period is approximately 32 weeks.

No.	Equipment Description
1	Primary liquid divider
2	Primary deflecting plate
3	Sheet baffle intake sections that provide even flow velocity
4	Wire string demisters for gas purification
5	Pipe connections providing inlet and outlet for separation products
6	Instrumentation and controls

Capacity, m³	Dimensions, mm	Pressure, Mpa	Weight, kg
6.3	1200x2173	0.6	2800
	1200x2173	1.0	2800
	1200x2177	1.6	3200
12.5	1600x2743	0.6	4580
	1600x2743	1.0	4770
	1600x2750	1.6	5935
25	2000x2895	0.6	7300
	2000x2900	1.0	8550
	2000x2905	1.6	9550
50	2400x3015	0.6	10660
	2400x3545	1.0	12550
	2400x3550	1.6	15500





SCREEN GAS SEPARATORS

Gas separators with screen packing are used for final purification of natural and associated petroleum gas in field pre-transport gas treatment units, and for underground storage at refinery plants.

The equipment documentation development period is 12 weeks. The production period is approximately 32 weeks.

No.	Equipment Description
1	Pumping unit
2	Gauges for measuring inside housing pressure, gas temperature and liquid volume control

Capacity, m ³	Dimensions, mm	Pressure, MPa	Weight, kg
0.8	600x3366	2.5	860
	600x4000	4.0	1150
1.6	800x3740	1.6	1150
	800x3785	2.5	1300
4.0	800x3865	4.0	1800
	1200x4670	1.6	2200
	1200x4690	2.5	2850
8.0	1200x4770	4.0	3400
	1600x5270	1.6	3400
	1600x5350	2.5	4750
1.6	1600x5950	4.0	6200
	2000x6290	1.6	5600
	2000x6410	2.5	8100
	2000x6420	4.0	11100

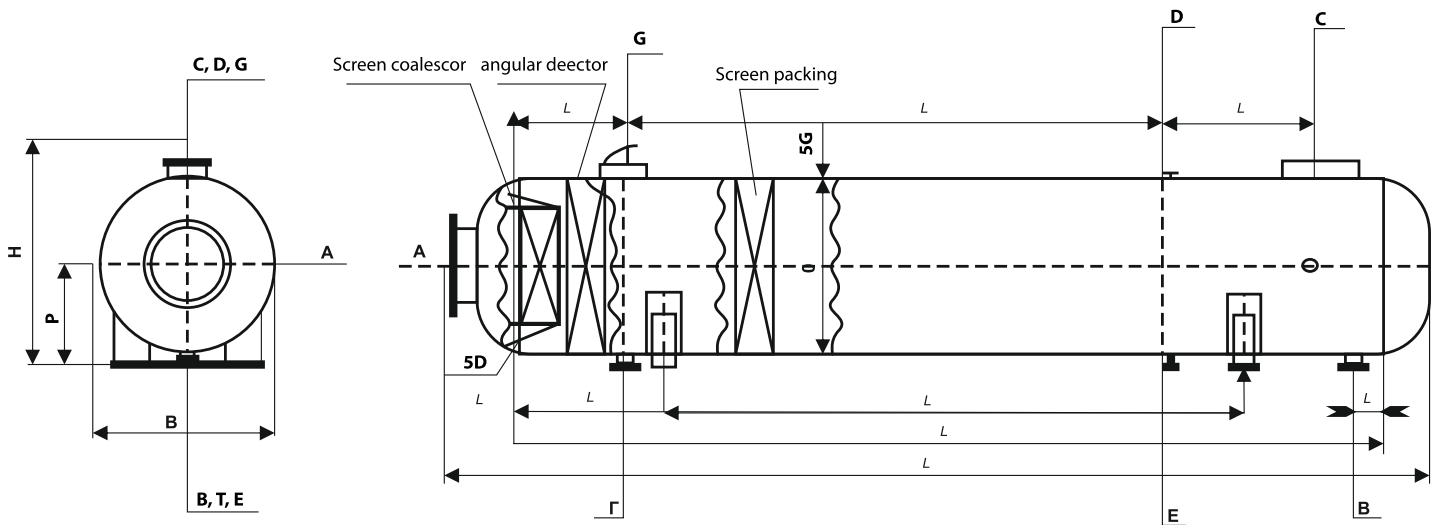
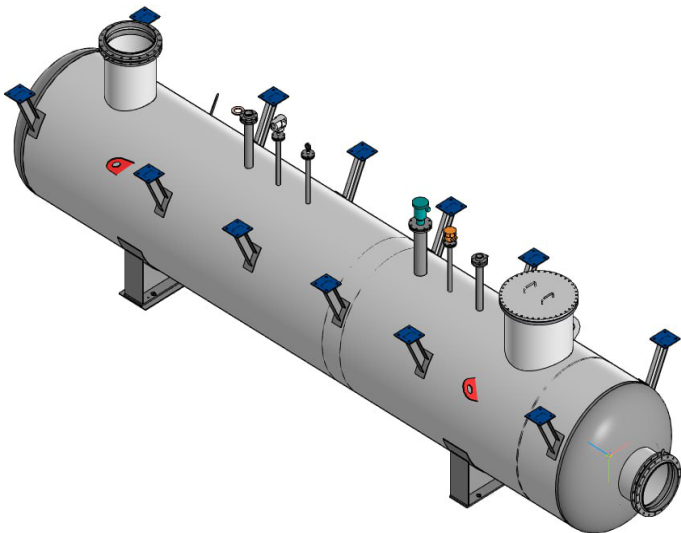
FLARE SEPARATORS

A flare separator removes liquid droplets from gas stream before flaring to prevent «raining» burning liquids.

The equipment documentation development period is 12 weeks.

The production period is approximately 32 weeks.

Capacity, ³	Dimensions, mm	Pressure, MPa	Weight, kg
4	1000x6780	0.6	2150
25	1800x10350		5650
60	2400x13650		10300
140	3200x18115		21100

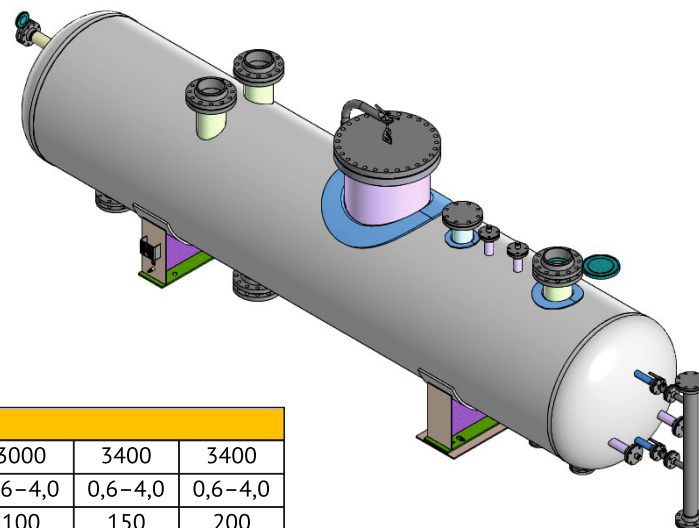


OIL AND GAS SEPARATORS

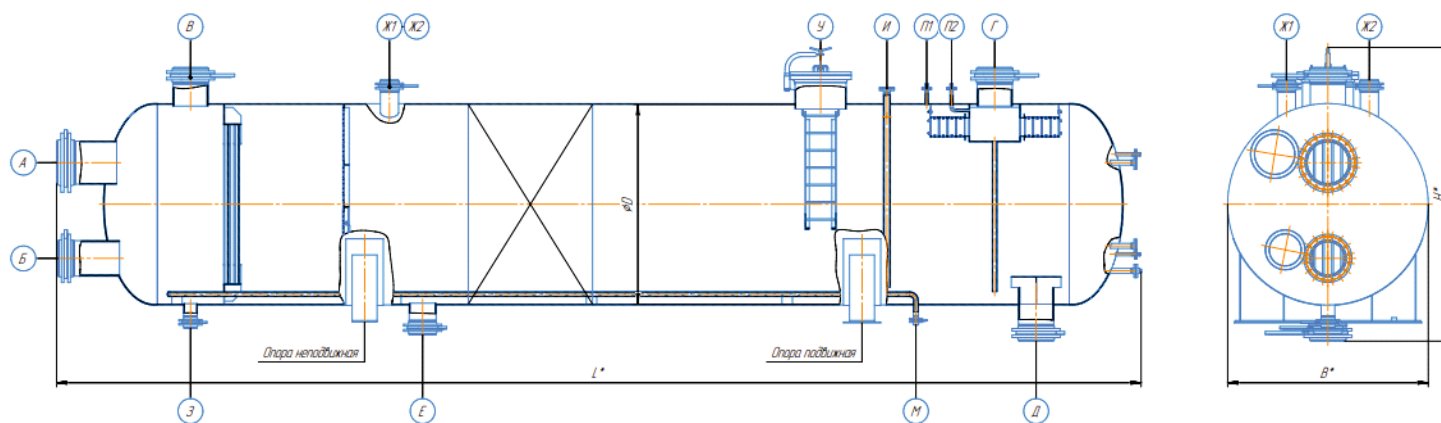
In oil and gas, a separator is a pressure vessel that splits a well stream into oil, gas, and water. It uses gravity and internal components to separate the components for further processing or disposal.

The equipment documentation development period is 12 weeks.

The production period is approximately 32 weeks.



Options	Values						
Inner diameter, mm	1200	1600	2000	2400	3000	3400	3400
Pressure, Mpa	0,6–6,3	0,6–6,3	0,6–10,0	0,6–4,0	0,6–4,0	0,6–4,0	0,6–4,0
Nominal volume, m3	6,3	12,5	25	50	100	150	200



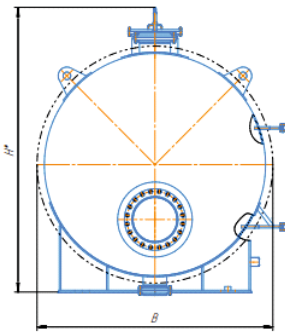
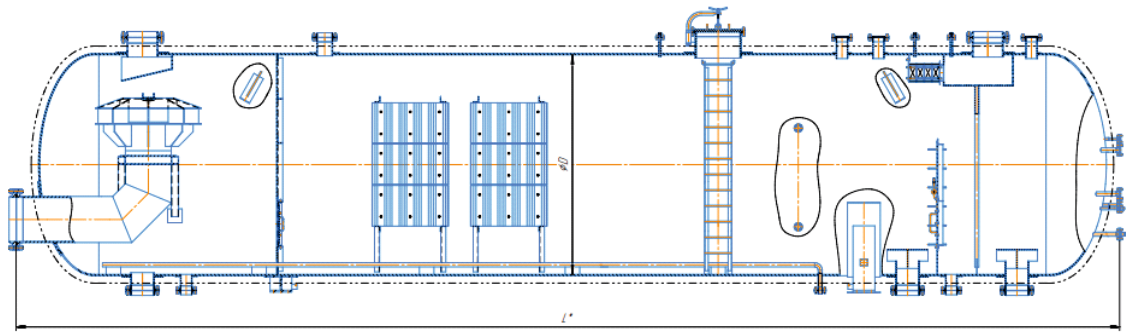
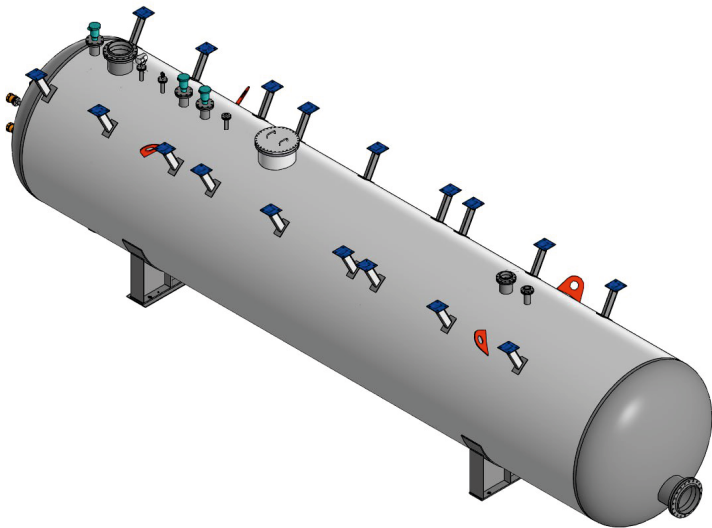
OIL AND GAS SEPARATORS WITH WATER DISCHARGE

An oil and gas separator with water discharge splits the well stream into oil, gas, and water. The water is removed from the bottom for disposal or treatment.

The equipment documentation development period is 12 weeks.

The production period is approximately 32 weeks.

Options	Values			
Inner diameter, mm	2000	2400	3000	3400
Pressure, Mpa	0,6–4,0	0,6–4,0	0,6–4,0	0,6–4,0
Nominal volume, m3	25	50	100	150

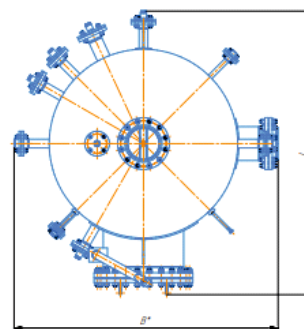
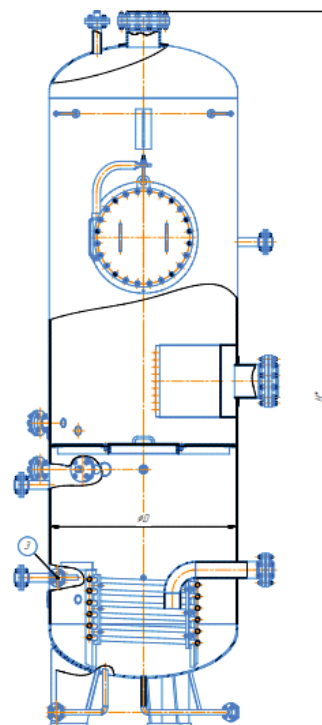
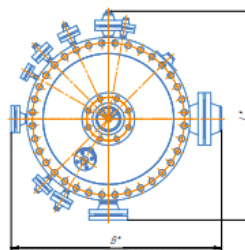
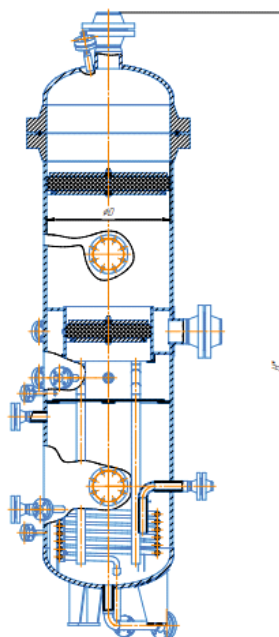
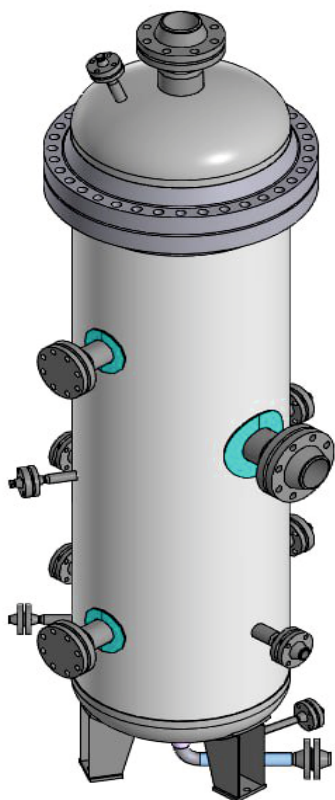


MESH GAS SEPARATORS

A mesh gas separator uses a wire pad to capture and coalesce fine liquid droplets from gas, ensuring dry gas exits.

The equipment documentation development period is 12 weeks.

The production period is approximately 32 weeks.



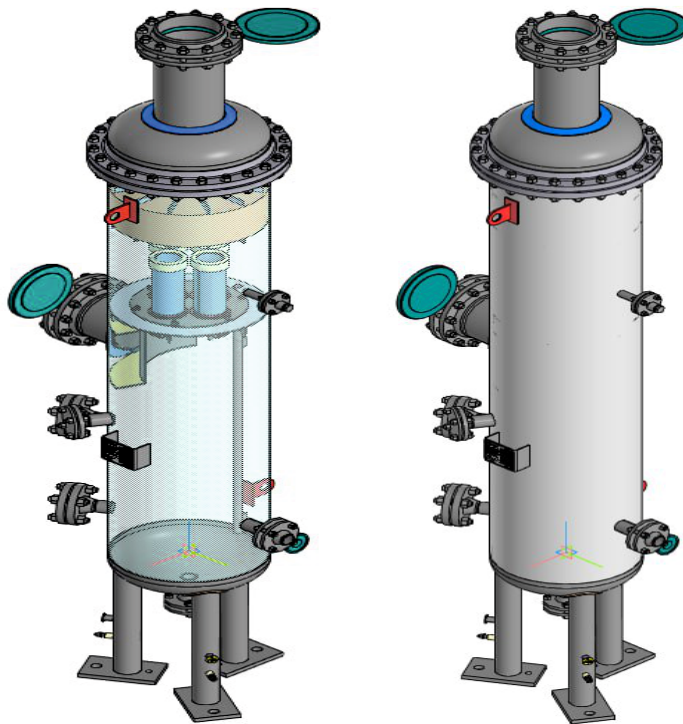
Options	Values				
Inner diameter, mm	600	800	1200	1600	2000
Pressure, Mpa	2,5–8,8	1,6–8,8	1,0–8,8	0,6–6,3	1,0–4,0
Nominal volume, m ³	0,8	1,6	4,0	8,0	16,0

VERTICAL CENTRIFUGAL SEPARATORS

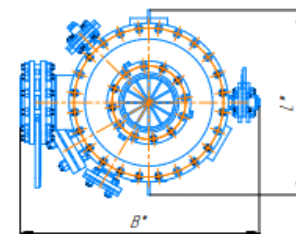
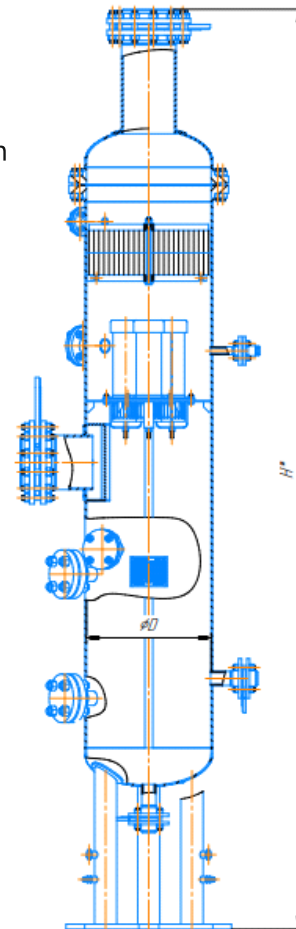
A vertical centrifugal separator uses spinning motion to separate materials of different densities. The rapid rotation creates centrifugal force, throwing heavier particles outward against the walls while lighter components remain toward the center. This design is compact and efficient for removing solids or liquids from gases or other fluids.

The equipment documentation development period is 12 weeks.

The production period is approximately 32 weeks.



Options	Values
Inner diameter, mm	200–1000
Pressure, Mpa	0,6–10,0
Nominal volume, m3	0,02–2,5



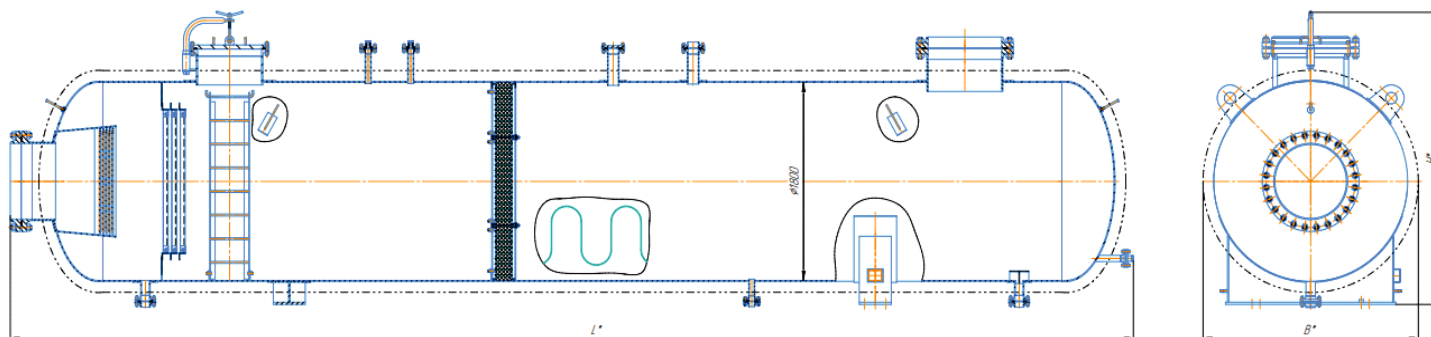
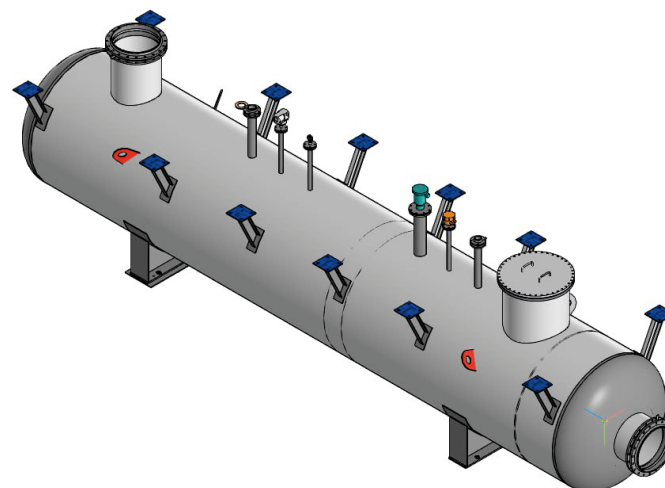
FLARE SEPARATORS

A flare separator, also known as a flare knockout drum, is designed to remove liquid droplets from gas streams headed to the flare. By extracting these liquids, it prevents burning liquid from raining down from the flare stack (a phenomenon called «liquid carryover» or «flaring rain»).

It typically uses gravity or internal components like baffles to separate and collect the liquids before the gas is combusted.

The equipment documentation development period is 12 weeks.

The production period is approximately 32 weeks.



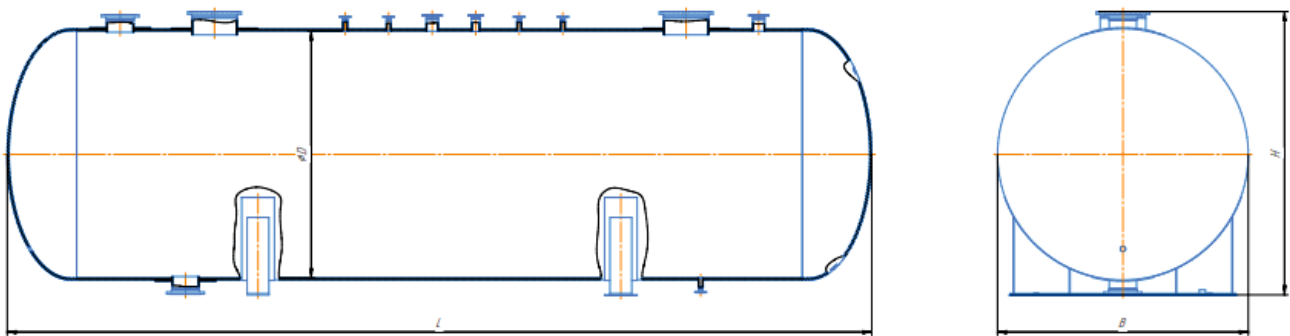
Options	Values								
Inner diameter, mm	1000	1200	1400	1600	1800	2000	2400	3200	3400
Pressure, Mpa	0,6–6,3	0,6–6,3	0,6–6,3	0,6–6,3	0,6–6,3	0,6–4,0	0,6–4,0	0,6–4,0	0,6–4,0
Nominal volume, m3	4	4–6,3	6,3	12,5	25	25	50–60	140	150

BULK CAPACITY TANKS

bulk capacity steel tanks or pressurized applications

Automated control equipment and inspections holes.
Optional equipment: replaceable bottoms, lids, packings, temperature sensors, control and shut-off valves.

The equipment documentation development period is 12 weeks.
The production period is approximately 32 weeks.



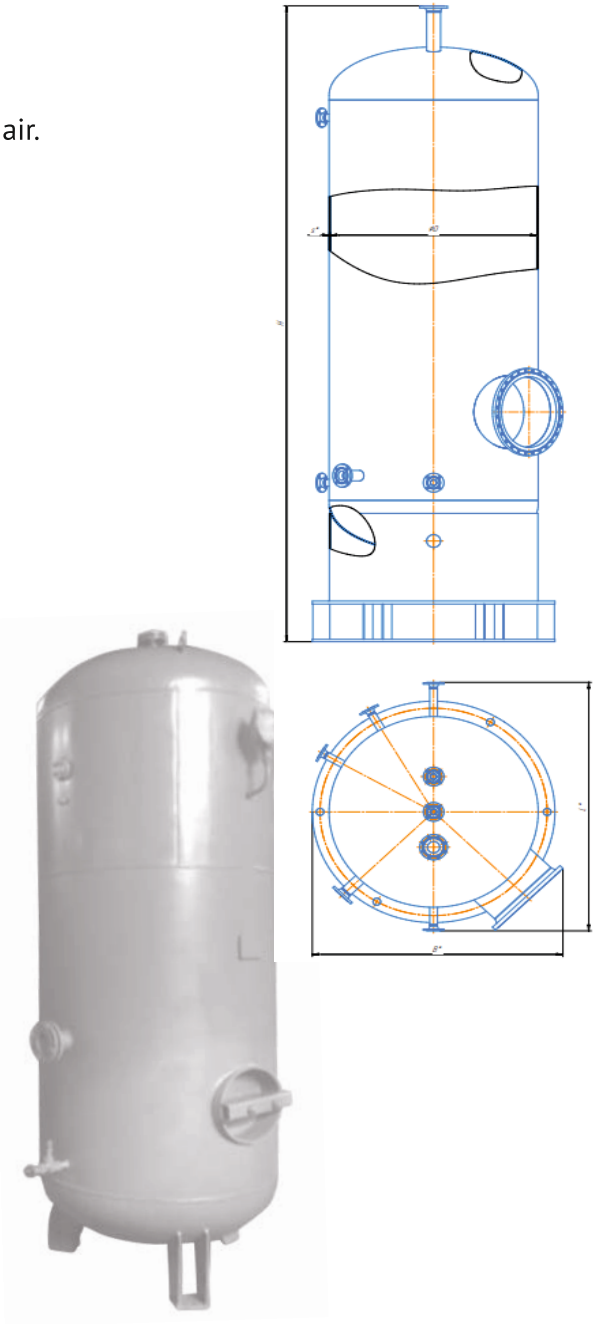
	Capacity, m ³	Type	Pressure, MPa	Intern. diam., mm	Length, mm	Height, mm	Weight, kg
	2	type 2	0,6–1,6	1000		3000	1000
		type 3					
	4	type 1		1200	3700	4450	2100
		type 2					
		type 3					
	6.3	type 2					2600
		type 3					
		GEE, VEE					
	8	type 1		1600			
		type 2			3500	4000	3000
		type 3			4200	4800	
		GEE, VEE			5300	5900	
	10	type 1					3400
		type 2					
		type 3					
		GEE, VEE					
	16	type 1		2000	3700	6200	3600
		type 2			5350	6800	4600
	25	type 3			5850	8200	7000
		GEE, VEE		2400	7350	8200	10000
	32	type 1			11000	11900	13500
	50	type 2			11500	12200	16300
	80	type 3, GEE		3000	14000	14700	20000
	100						

AIR RECEIVERS (AIR COLLECTORS)

The air receiver is a vessel designed for the storage of compressed air. Its main function is to stabilize the pressure of compressed air and minimize its pulse when feeding to the stationary compressor.

The equipment documentation development period is 12 weeks.
The production period is approximately 32 weeks.

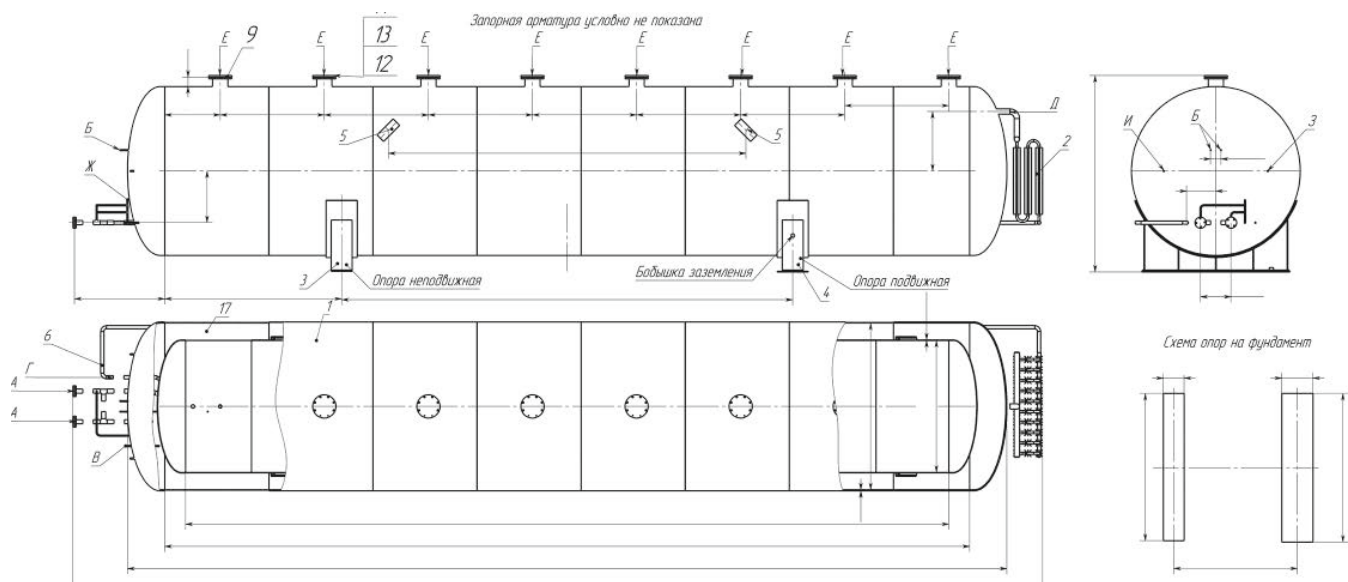
Receiver type	Total capacity, m³	Working pressure, MPa	Working temperature, °C	Diameter, mm	Operating environment
Receiver RV (vertical/horizontal)	0,5	0,8 (1,0; 1,6; 2,5; 4,0)	minus 60 – plus 70	600	air
	1			800	
	1,6			1000	
	2			1000	
	3,2			1200	
	4			1200	
	6,3			1400	
	8			1600	
	10			1600	
	16			2000	
	20			2000	
	25			2200	
	32			2400	
	40			2400	
	50			2400	



LNG STORAGE TANKS

LNG storage tanks are cryogenic containers that hold liquefied natural gas at -162°C. They have a double-walled design with insulation between the inner and outer shells to maintain the extreme cold. This reduces the gas volume by 600 times for efficient storage.

The equipment documentation development period is 12 weeks.
The production period is approximately 32 weeks.



Tank type		Total capacity, m ³	Working pressure, MPa	Working temperature, °C	Installation	Operating environment
LNG tank	type 3	3	not more than 0,6	not less than minus 196 and no higher than minus 160	Aboveground	LNG
	type 6	6				
	type 10	10				
	type 25	25				
	type 32	32				
	type 36	36				
	type 50	50				

BUKS MODULAR SEPARATION SYSTEM FOR WELL CLUSTERS IN MODULAR DESIGN

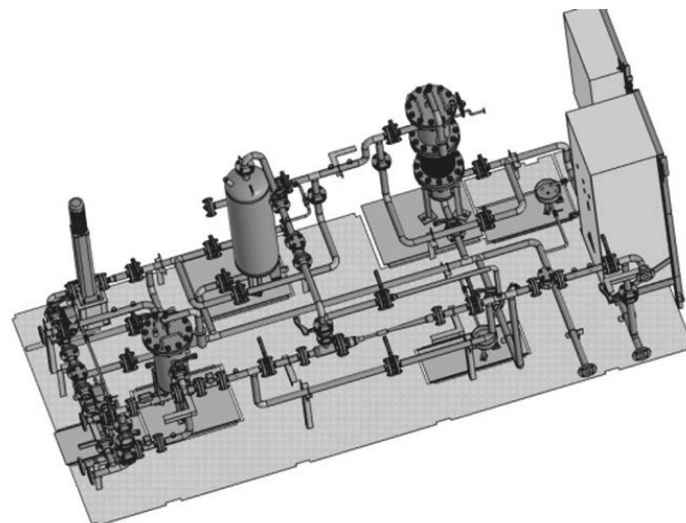
The developed technology allows to reduce energy costs for transportation and treatment of ballast water, relieves the site facilities from overload and improves the water treatment quality.

The equipment documentation development period is 12 weeks.

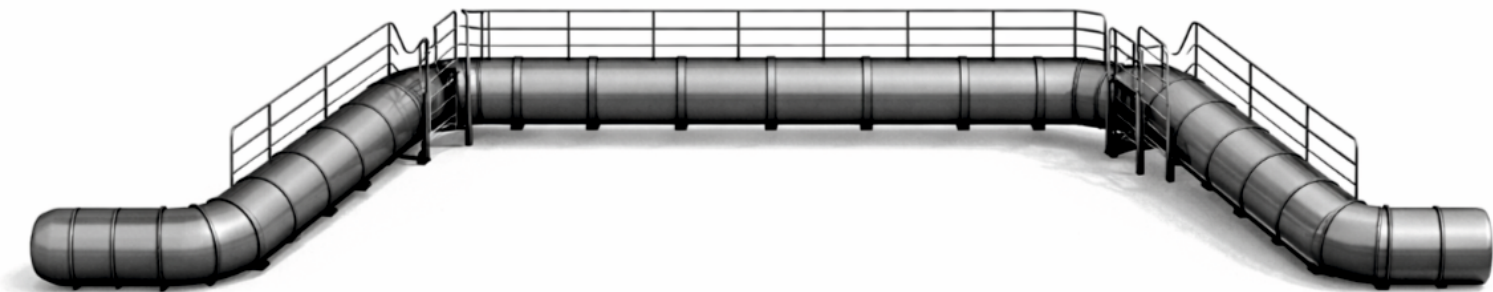
The production period is approximately 32 weeks.

System main specification

- Capacity 100-150 m³/day.
- Weight 4000 kg.
- Dimensions for transportation:
length – 5,5 m, width – 2,5 m, height – 2,5 m.



STEEL WELDED TUBES



Hot-rolled and cold-rolled welded steel pipes from shells intended for pipelines of category VB according to the «Recommendations for the installation of technological pipelines», including for a circulating water duct. The working medium is industrial water. The working pressure is not more than 0.7 MPa. By customer's request, the pipes can be reinforced with a stiffening ring.

The equipment documentation development period is 12 weeks. The production period is approximately 32 weeks.

Diameter, mm	Wall thickness, mm	Reinforcement, mm
720 ... 2640	6 ... 25	10 ... 16

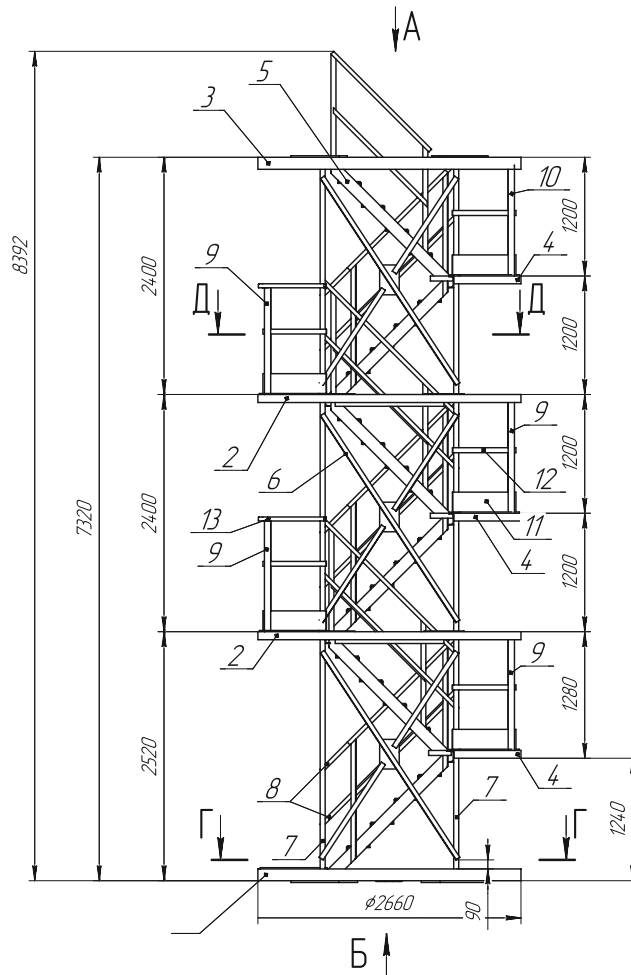
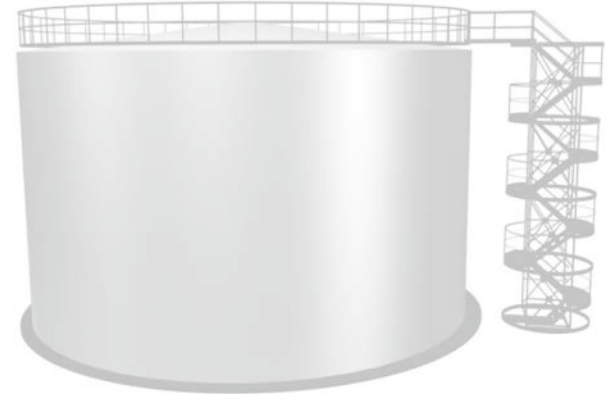


TANK LADDERS

Fixed tank ladders provide permanent, safe access to the top of storage tanks for maintenance and inspection. They are typically attached directly to the tank shell and may be vertical or spiral. These ladders include safety cages and platforms for fall protection.

The equipment documentation development period is 12 weeks.

The production period is approximately 32 weeks.





TANK CONTAINERS

Tank containers (cisterns) are designed for the transportation of liquids, liquefied gases and a number of bulk products. A tank container is a container consisting of a frame (frame elements) and a tank equipped with drain fittings and devices for unloading, both under the influence of gravity and under pressure.

The equipment documentation development period is 12 weeks. The production period is approximately 32 weeks.



IMO	Type	Volume m ³	Tare weight, t	Tank wall thickness, mm	Operating pressure, bar
IMO 0	standard	17	2,2	2-3	1,75
	Increased	26	3,0	2-3	2,5
IMO 1	standard	11	3,5	5-8	4
	Increased	26	6,0	5-8	6
IMO 2	standard	17	2,5	3-4	3
	Increased	26	4,0	3-4	6



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