Buffer Produced Water Flash Drums

Buffer tanks-degassers are designed for degassing and post-treatment of formation water from mechanical impurities and oil products before pumping units. This equipment is a type of apparatus MOAGS-A.

Characteristics

Part of the equipment

The formation water degassing buffer tank with an oil product recovery unit is supplied with the following configuration: a horizontal tank with a set of fittings, instrumentation, an internal coalescing device for water purification and a device for collecting trapped oil and draining it.
The dimensions and volume of the apparatus are determined depending on the required productivity, physical and chemical properties of formation water, operating mode and requirements for the quality of the final product.

Designation

Order designation example:
Formation water buffer tank-degasser based on MOAGS-A apparatus (BEV-25-1.0-U1) according to TU 3615-037-56562997-2012, where:
25 – tank volume, m3;
1.0 – design pressure, MPa;

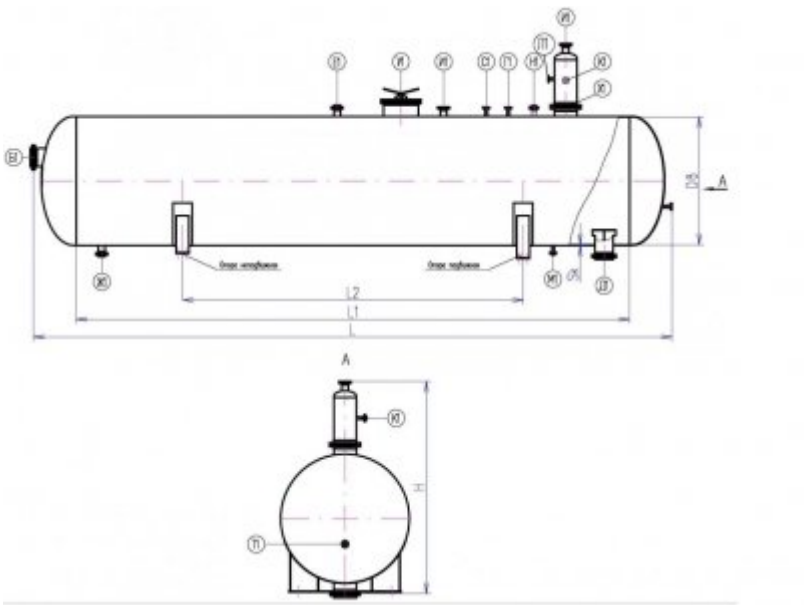
U1 - climatic version.

Specifications	
Working environment	formation water
Volume of devices, m3	from 8 to 200
Design pressure, MPa	0,6; 1,0; 1,6; 2,5
Liquid capacity, m3/day	up to 18 000
Content at the inlet in formation water, mg/l	
- oil products	up to 100
- механических примесей	up to 50
Outlet content in formation water, mg/l	
- oil products	20 - 40
- mechanical impurities	20 - 40
Volume content of gas, l/m3	no more than 30
Ambient temperature, 0C	-60 to +50

Technical details

Explication fittings						
Designation	Purpose	Apparatus volume, m3				
		25	50	100	150	200
		Conditional passage, mm				
B1	Product entry	200	300	400	500	500
D1	Product yield	200	200	400	400	400
N1	Gas outlet to the torch (candle)	100	100	100	150	150

E1	For SSV	150
G1	For level switch	50
J1	Drainage	150
I1	For water level gauge	150
K1	Output of captured oil, gas	50
M1,2	For steaming	50
S1	For pressure sensor	50
T1	For level switch	50
U1	Manhole hatch	600
H1	Exit to the cap	500
Z1	For purge	50
L1	For sampler (air vent)	50
P1	For pressure gauge	50



Parameters and dimensions of devices

cipher machine	volume, m3	Design pressure, MPa	H, mm	Dv, mm	Sk, mm	L, mm	L1, mm	L2, mm	Macca, kg	Productivity, m3/day
										by liquid
BEV-25-0,6	25	0,6	4220	2000	8	10104	8500	5000	7291	2000
BEV-25-1,0		1,0			10				8554	
BEV-25-1,6		1,6			12				9546	
BEV-25-2,5		2,5			18				12746	
BEV-50-0,6	50	0,6	4875	2400	8	12893	11000	6000	10660	3600
BEV-50-1,0		1,0			10				12543	
BEV-50-1,6		1,6			14				15448	
BEV-50-2,5		2,5			20				21063	
BEV-100-0,6	100	0,6	5050	3000	10	14980	13000	8000	19832	7000

BEV-100-1,0		1,0			12				22297	
BEV-100-1,6		1,6			18				28487	
BEV-100-2,5		2,5			25				38097	
BEV-150-0,6	150	0,6	5568	3400	12	17826	15300	9000	24591	12000
BEV-150-1,0		1,0			14				31550	
BEV-150-1,6		1,6			20				41090	
BEV-150-2,5		2,5			28				56800	
BEV-200-1,0	200	1,0	5568	3400	12	23120	19800	13000	27515	18000
BEV-200-1,6		1,6			16				34407	

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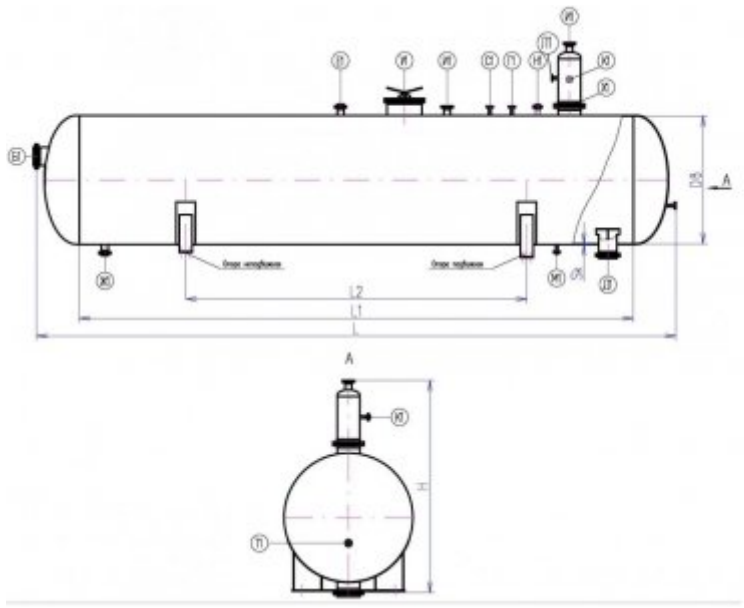
- 
А
L2
L1
L
H