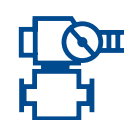


NEW METHODS TO PROVIDE AND CONTROL CLEANLINESS OF POWER PLANTS INNER CAVITIES





PORTABLE STAND PURPOSED FOR FLUSHING, WATER TREATING AND TESTING OF COLD WATER SYSTEMS

Cleanliness of inner cavities of articles and systems during manufacturing, testing, assembly and repair is one of the most important factors for long and safe operation of ship power plants, including nuclear power plants (SNPP).

Final stage of inner cavities purification upon assembly completion is hydrodynamic flushing in closed circuit. For this purpose SSTC creates stands for flushing.

Intensification of flushing procedure allows to decrease operation time of the same, saving material and technical resources.

SSTC is currently developing new equipment for flushing procedure intensification.

Flushing direction changing unit provides accelerated change of circulation direction to intensify articles flushing.

SPECIFICATIONS

Flushing water consumption, m ³ /hour	up to 450
Pressure, kgf/cm ²	up to 12.5
Dimensions, m	7×3×4
Dry weight, ton	22
Power consumption, kW	up to 450
Test pressure, MPa	up to 28
Water consumption on water treating filters, m ³ /hour	15
Operation mode	manual, semiautomatic
Filtration degree, micron	50

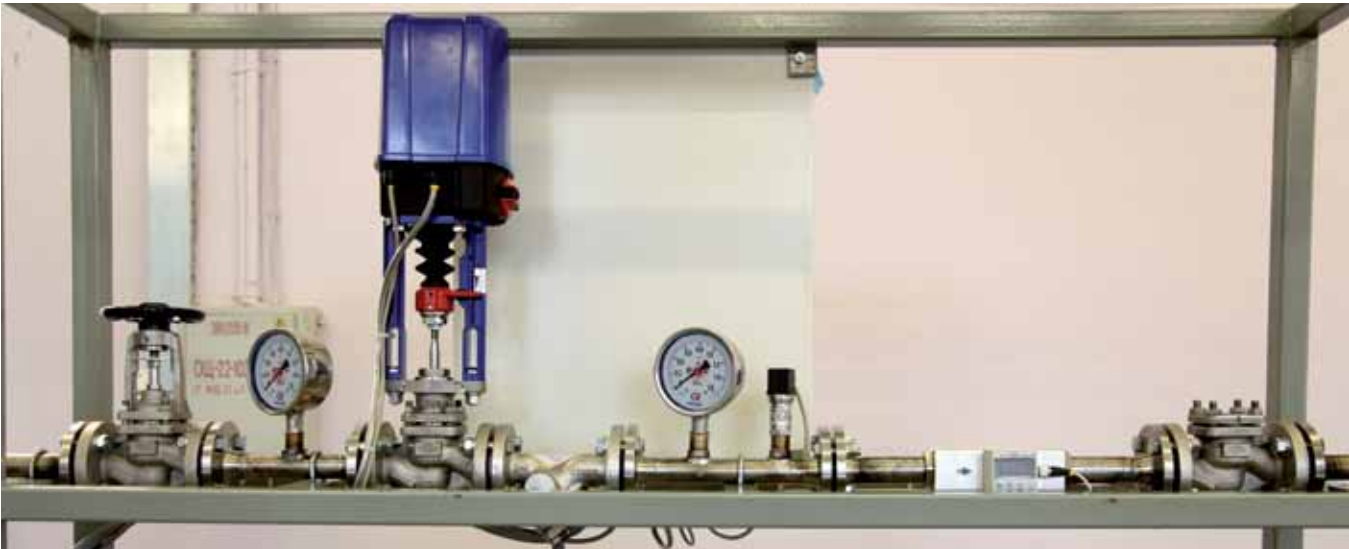
SPECIFICATIONS

OF FLUSHING DIRECTION CHANGING UNIT

Flushing water consumption, m ³ /hour	up to 2000
Weight, ton	2.9
Input (output) flanges, DN	450
Minimum direction change rate (two reverses), min	to 1
Maximum working pressure during flushing, MPa	not more than 1.26
Dimensions, m	1.3×1.43×1.4



Bubbling equipment provides application of compressed air together with flushing water for intensified pipelines flushing.



Units for pulsation and barbotage of flushing water are additional devices for flushing stands, strictly required when manufacturing complicated marine engineering articles, assembly of systems, and can be used as well when flushing systems with standard pumps.

In accordance with results of pulsation unit trials, average increase of decontamination rate equals to:

- on initial stage of flushing — 2 times;
- on final stage of flushing — 3,5 times.

In accordance with results of barbotage unit trials, increase of decontamination rate equals to:

- on initial stage of flushing — by 17–37%;
- on final stage of flushing — up to 3–5 times.

It was estimated, that flushing water and power consumption of barbotage unit can be reduced down to 50%.

BUBBLING EQUIPMENT SPECIFICATIONS
(W/O COMPRESSOR AND RECEIVER)

Maximum flushing water consumption, m³/hour	up to 200
Pneumatic module weight, tons	0.1
Pipeline maximum diameter, DN	not more than 150
Maximum working pressure, kfg/cm²	not more than 8
Dimensions, m	1.9 x 0.5 x 1.9





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