

# Caustic mixing unit

**Product code: BY02**

## Features and Benefits:

**Dust free mixing of caustic soda**  
for a better working environment

**Field proven air driven pump**  
for reliable operation

**Meets all relevant HSE requirements**  
minimizes risks related to hazardous chemicals

STEP Offshore's caustic mixer is designed for safe and simple mixing of caustic soda on offshore drilling rigs.

Bags are cut manually within a closed chamber, thus eliminating dust exposure for involved personnel. Powder is emptied into a 400 litre/ 106 gallon tank, where mixing of caustic is performed by circulation with a diaphragm pump.

Readily mixed caustic soda can be pumped to the desired tank or mixing line by use of a diaphragm mixing pump, operated by a 3-way ball valve. Field proven air diaphragm pumps are used – suitable for variation of flow.

The caustic mixing unit is designed for an offshore environment, and is engineered to reduce maintenance and service to a minimum.

Great care has been taken to ensure that all relevant offshore health, safety and environment requirements are met.



## About STEP Offshore

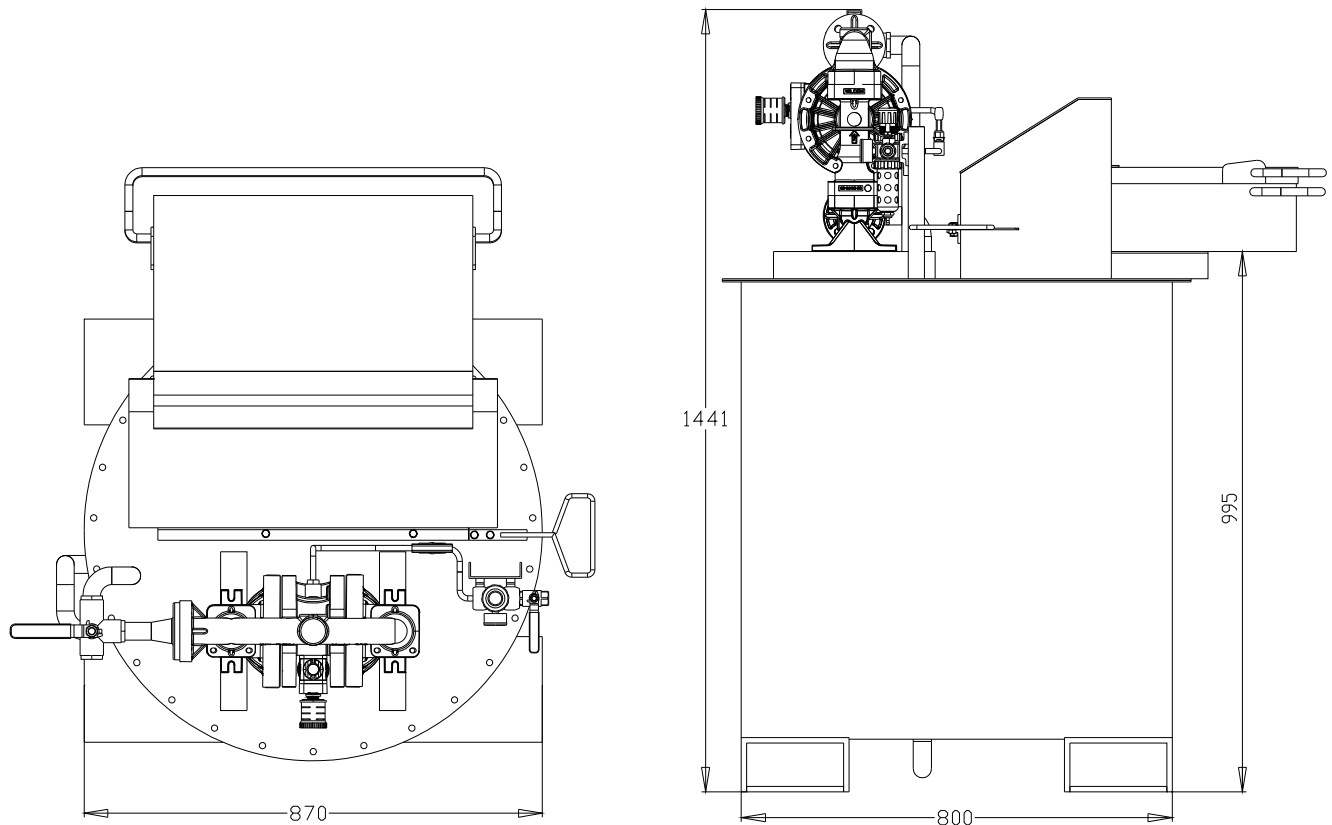
STEP Offshore is a leading supplier of high quality systems for drilling fluids management applications for oil and gas applications. The company was founded in 2004, with its headquarters located just outside Oslo in Hvalstad, Norway. Subsidiaries in Stavanger, Norway and Aberdeen, Scotland are established to serve the North Sea markets. The company utilizes Aker Solutions' worldwide network of representatives and offices to offer a global presence. Typical STEP Offshore deliveries are automated systems to semi submersible drilling rigs, drill ships, jack ups and land rigs, new builds and upgrades.

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## Technical Specifications



Design data (standard unit)					
Tank capacity	400 [106]	ltr [gallon]	Feed rate	0,1-1,5 [0,46-7]	m3/h [gpm]
Unit weight	195 [430]	kg [lbs]	Area classification	SAFE (zone 2 as option)	
Design temp.	-10/+50 [14/122]	°C [°F]			
Utility requirements:					
Max air consumption	17 [10] @ 6 barg	Sm3/hr[scfm]			
Options:					
Hazardous area zone 2 certification			System design assistance ("Engineering Support Team")		
Documentation:					
Description	Reference		Included	Note	
User Manual	Based on NS 5820		Yes	Two (2) Sets	
MRB	NS 5820		Yes	Retained Document	
Certificates / Statements	NS 5820		Yes	As applicable	
Notes:					
STEP Offshore can supply installation supervision, commissioning and training on a separate contract. Documents/ Drawings issued to customer are delivered as STEP Offshore standard and will not be subject for comments. Contents of this product flyer can be changed without prior notice. Drawings and technical data should not be used for construction purposes. Please contact your local STEP Offshore office for further information or to receive a quotation.					