

BIS-1 biogas support system



Flygt BIS-1 biogas support system

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Flygt submersible mixers

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mixing system for biogas digester that ensures proper digestion process and reliably maximizes gas production with minimum installation, maintenance and service time



Functions

The BIS-1 biogas support system was engineered to support critical functions for optimal biogas digestion operation including the ability to:

- move the mixer up and down on the guide bar without opening the digester roof or hatch
- rotate the mixer +/- 45 degrees in the horizontal plane without opening the digester roof or hatch
- simply lift the mixer out of the digester without emptying the tank

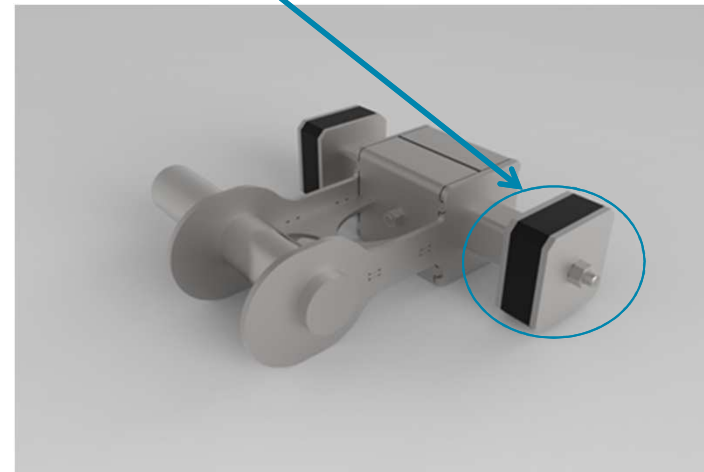


Features

- Suitable for use with 'new-build' and existing biogas digesters
- Easy adjustability of mixer height or angle without opening the digester roof or hatch
- BIS-1 system is quick and easy to install, reducing installation costs up to 40%*
- Patented guide bar connection - guarantees a secure and durable guide bar connection, minimizing vibration and thereby maximizing system longevity
- System is compatible with locally supplied guide bars
- Mixer maintenance procedure is quick and safe, keeping system downtime to a minimum
- Corrosion and abrasion resistance - engineered to withstand minimum 5 years of demanding inspection
- Standardised parts - spare parts available for fast deliveries

*according to Xylem tests

Patented design



Guide Bar connection

Features

Intermediate support enables a mixer to pass over an intermediate wall bracket smoothly without obstruction



Intermediate wall bracket

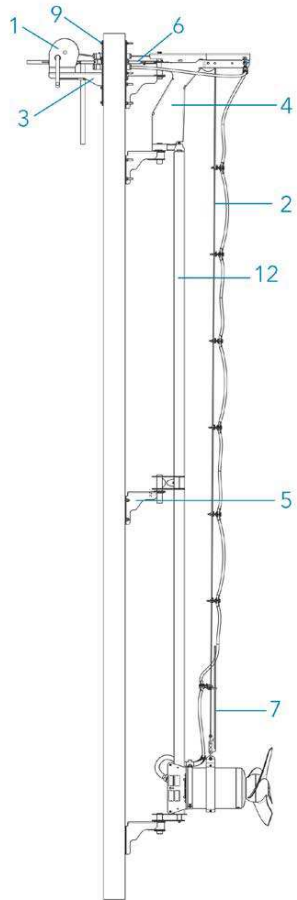
Technical data

- Compatible with 4600 Series and 4460 mixers (1.3 m propeller)
- Every steel component is made with SS316
- Equipped with Pfaff certified winch
- Winch package is equipped with fibre rope
- Designed for 100x100x4 mm guide bar
- Suitable for wall thickness: 200, 300, 500 mm (other thickness available on special order)

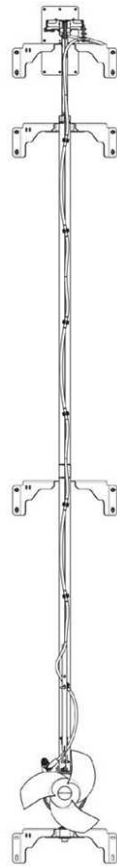


4670 installed on the BIS-1 biogas support system

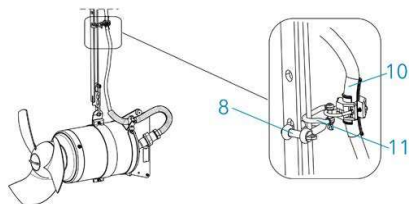
Composition



BIS-1 support system side view



BIS-1 support system front view



BIS-1 support system cable fixation

Item No.	Denomination	Part number	
1	Winch	85 02 59	
2	Polyester rope 9m (for TOTAL guide bar length <6m)	85 02 51	
	Polyester rope 12 m (for TOTAL guide bar length =>6m)	85 02 98	
3	Outer assembly	792 75 00	
4	Inner assembly	792 74 00	
5	Intermediate wall support (if required)	792 76 00	
6	Pivoting arm (part number depends on wall thickness)	200 mm	792 60 20
		300 mm	792 60 30
		500 mm	792 60 50
7	Lifting bracket	802 16 00	
8	Shackle	4600 mixer	82 26 50
		4400 mixer	85 01 80
Mounting kit			
9	Anchor ampule (M16)	84 56 79	
	Anchor rod (M16)	83 17 27	
Cable handling			
10	Cable holder (part number depends on cable outer diameter)	17 - 25 mm	85 01 24
		23 - 30 mm	85 01 25
11	Shackle	85 01 26	
Guide bar			
12	Guide bar 3m SS316 (100x100x4)	623 57 01	
	Guide bar 6 m SS316 (100x100x4)	623 57 03	