

Section 09 – Process Equipment (Offshore) - Sales Item 09090512

**FWTB -01-16K Burners (8 x New) c/w MI Power Cables, JB's for a 30MTR Flare
Boom and ICP/Stand**

DETAIL AS FOLLOWS:



1	Package Technical Specifications			
2				
3	Model	FWTB-16K (Well Test Burner)		
4	Numbers of Burners	1 to 12 (Removable as required)		
5	Number of Pilots	1 to 4 (1 per burner)		
6	Protection Systems	Wafer Check Valves (Oil and Air Inlet Lines)		
7				
8	Pressure - Design / Operating :	Oil Systems	1440 / 100 to 400 psig	99 / 6.9 to 27.6 barg
9		Utility Air Systems	1440 / 100 to 150 psig	99 / 6.9 to 10.3 barg
10		Pilot Gas Systems	275 / 10 to 40 psig	19 / 0.7 to 2.8 barg
11				
12	Temperature - Design / Operating :	Oil Systems	100 / -40 to 752 f	38 / -40 to 400 c
13		Utility Systems	100 / -40 to 752 f	38 / -40 to 400 c
14		Pilot Gas Systems	100 / -40 to 752 f	38 / -40 to 400 c
15				
16	Flow - Oil :	Maximum (6 Burners)	16,000 bbl/day	2,544 m3/day
17		Minimum (1 Burner)	1,000 bbl/day	159 m3/day
18				
19	Flow - Utility Air / 1,000bbl oil/day		343 to 450 sft3/min	9.7 to sm3/min
20				
21	Overall Dimensions - L x W x H		83 x 78 x 57 Inch	2,104 x 1,973 x 1,447 mm
22	Dry Weight		2,200 lbs	1,000 kg
23				
24	Connections :	Pilot Gas	1" hex union thread half	
25		Main Burner Utility Air	4" hammer union thread half	
26		Main Burner Oil	3" hammer union thread half	
27				
28	Design Codes and Standards :		ASME B31.3	
29			NACE MR-01-75 (H2S)	
30				
31	Burner Nozzle Specifications			
32				
33	Model	TLB-01-4K (Triplex Liquid Burner)		
34	Flow - Oil :	Maximum	4,000 bbl/day	636 m3/day
35		Minimum	1,000 bbl/day	159 m3/day
36	Water Cut	25 % (maximum)		
37	Oil Gravity	14 to 60 API		
38	Particulate Tolerance	50 micron (maximum)		
39	Weight		158 lb	72 kg
40				
41	Pilot Specifications			
42				
43	Model	LBP-01 (Liquid Burner Pilot)		
44	Flow - Pilot Gas / Pilot :	Propane	6 / 10 lb/hr	2.7 / 4.5 kg/hr
45		Natural Gas	86 / 145 sft3/hr	2.4 / 4.1 sm3/hr
46	Ignition System	Manual (1 per pilot)		
47	Power Supply	110 VAC 50/50 Hz Single Phase		

Description

The FLAREON FWTB range of Well Test and Disposal burner packages have been specifically designed to meet industry requirements and cope with the harsh environments and fluids encountered in onshore and offshore applications. The FWTB-01-16K is a standard package designed to flow a maximum of 16,000 Barrels per day (BBL/day) of fluid with no liquid fallout and minimal smoke up to 12,000 BBL/day while water cut is required to maintain smokeless operation at full design capacity.

Each unit includes twelve LBN-01-1.33K Burner Nozzles separated into four groups of three around four of our LBP-01 Liquid Burner Pilots. This layout minimises flame interference, improving overall burn efficiency. Individual nozzles can easily be removed or isolated as required.

The Burner Nozzles work on a traditional and well proven concept of air or steam atomisation within a Y-Jet formation. The sizing's and angles are optimised by extensive in-house testing.

This simple design has no moving parts and is sized to avoid blockage and keep pressure drop to a minimum often negating the use of booster pumps.

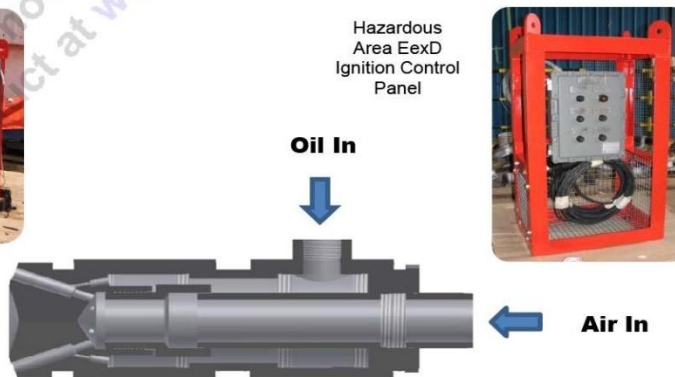
In addition to our standard products we offer tailor-made solutions based around our typical burner nozzle design to meet with your application requirements. Individual units can be designed between 1,000BBL/day and 16,000BBL/day with a variety of connections types (Flanged, Hammer Union, screwed, fully welded) and sizes. Flame detection can be offered on request with control panels ranging from the standard manual push-button ignition to auto-ignition and detection with communication to a plant DCS for remote monitoring.

Features :

- Compact size and simple design
- Low pressure drop. Low pressure requirement
- Backflow protection on oil and air lines
- High turndown
- Easy to clean and maintain
- Low smoke generation and no liquid fallout
- Designed for a wide range of oil types and water cuts
- Sold as standard product or bespoke design
- Air, Steam or Gas atomisation available
- Flame detection available on request



FWTB-01-16K
Burner
Packages



LBN-01-1.33K Burner Nozzle

Notes:

- Available subject to prior sale.
- Can be sold as individual units
- Located in Indonesia.
- Full Documentation Packages are available upon request.