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Tri-Phase Metering System for Oil Field (Mobile type)

Product Description	
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Basic Info.

Model NO.	YQSJL-YN
Transport Package	Plywood Case
Origin	China
Production Capacity	100 Sets/Year

Connection Type	Flange
Trademark	YINUO
HS Code	9026209090

Product Description

YQSJL-YN-Multi-phase (Oil, Gas, Water) Measuring Device is deigned and used for improving production management of oil/gas well, decreasing the extraction cost especially manual operation and provide the basis for decision making.

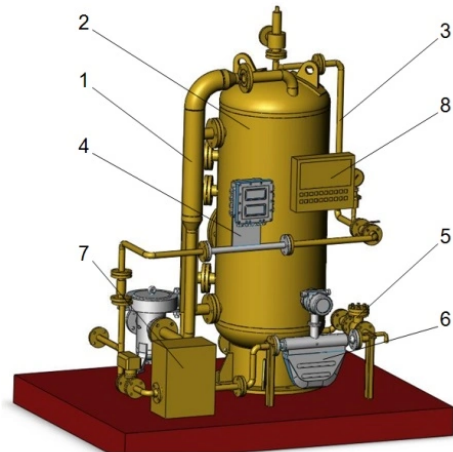
Working theory

Gas from mixed medium will get separated from liquid by go through gas-liquid separating unit, and then gas be measured by ultrasonic gas flowmeter and liquid by coriolis mass flowmeter, which would get the online detection data of gas, liquid, oil, water, etc. After processed by the PLC controlling unit, the signals become report, curve or data log of liquid, oil percentage, water percentage, gas percentage, etc.

The system has TFT display to show real-time status, and it can also be equipped with remote communication with internet.

Measuring accuracy	1. Liquid:≤ 1% 2. Water ratio:≤3% 3. Gas:≤ 1%
Measuring range	1. Liquid:0~2400m ³ /d(Or customized) 2. Gas:0~3000m ³ /d(Or customized) 3. Water ratio: 0~100% 4. Gas ratio: 0~100%
Medium	For all kinds of liquid
Viscosity	≤ 5000cp(Working condition)
Pressure drop	≤ 0.1Mpa
Temp. range	< 100°C
Working press.	≤ 1.6Mpa(Or customized)
Ambient temp.	-20°C~55°C
Data information	1. Instant/total flow of liquid, gas, water, and oil 2. Real-time status for the system and equipment 3. Statistical statement
Other function	Remote control(Or customized)

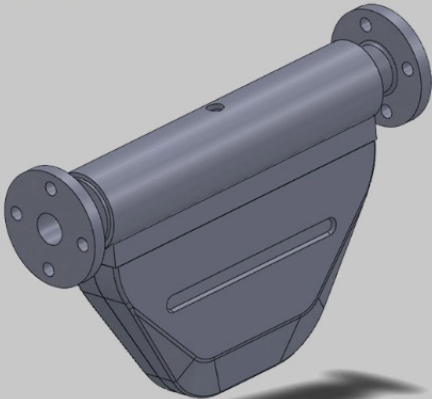
Structure



1. 进口管线 Inlet pipe
2. 气液分离罐 Gas-liquid separating tank
3. 气相管线 Gas pipe
4. 气体超声波流量计 Ultrasonic gas flowmeter
5. 液相管线 Liquid pipe
6. 质量流量计 Coriolis mass flowmeter
7. 调节阀 Regulator
8. 控制显示器 Display control

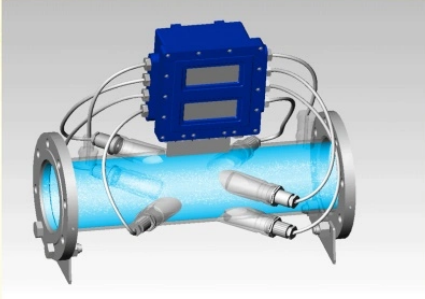
Coriolis mass flowmeter

- 1 Detect both of oil and water density for well production
- 2 Input density data into Coriolis Mass Flowmeter
- 3 Get water and oil production respectively
- 4 +/- 0.25% accuracy for liquid measurement

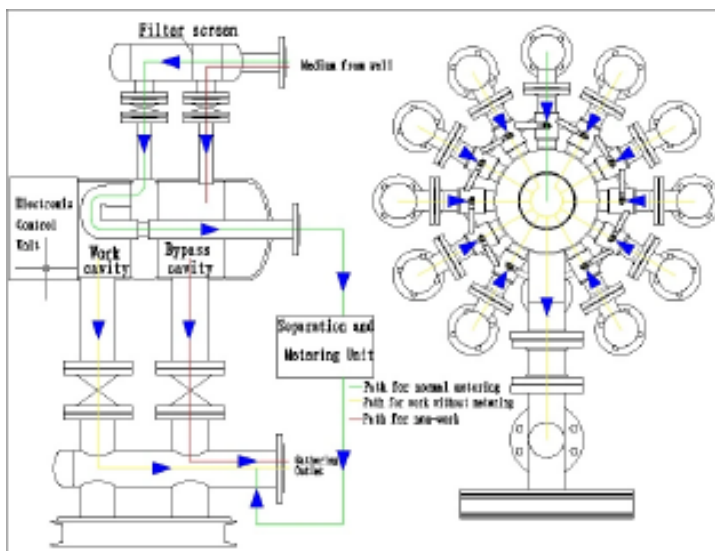


Ultrasonic gas flowmeter

- 01 By Ultrasonic Gas Flowmeter (transit-time principle)
- 02 Compact design including temperature & pressure compensation)
- 03 Applicable for low pressure gas, high accuracy & turndown ratio
- 04 +/-1.0% accuracy for 1-25m/s gas range



Working flow



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