



Auto Sampler Systems Catalogue

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Auto Sampler System installed in Tabriz refinery



Company Introduction

Established in 2006, our company initially founded to supply control systems to oil, gas and chemical industries. Then we expanded our work by adding metering systems to our field of expertise. We have managed to get the partnership of the IMS Group (Russia), OGS Limited (UK) and the M&T (France). So now we are able to provide the supply of equipment for Oil, Gas and Petrochemical industries like never before.

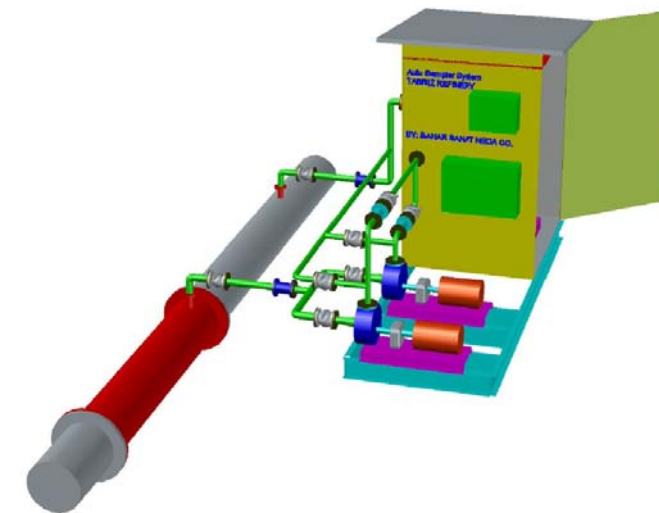
Our activities consist of:

- Design, Engineering and Assembly of DCS, ESD, PLC , SCADA and Computer control systems
- Design and Manufacturing of Auto Sampler Systems
- Business Department for supply of equipment for Oil, Gas and Petrochemical industries
 - o IMS Group (Russia)
 - o OGS Limited (UK)
 - o M&T (France)
- Engineering Services :
 - o Design and preparing tender documents for control systems
 - o Design and preparing tender documents for metering systems
 - o Design of Pump stations and pump selection and pump control systems

- Site Services
 - o Metering systems start-up and Calibration and maintenance services
 - o Provers Water Draw calibration services
 - o Control Systems start-up and maintenance services
- Training
 - o Training on Metering systems
 - o Training on Proving Systems
 - o Training on Control Systems

Auto Sampler Systems

3D scheme of the Auto Sampler System:



Bahar Sanat Neda is the First and only Company in Design and manufacturing of Auto Sampler Systems in IRAN.

Auto Sampler systems are used to determine the quality of crude oil, refined products, condensate or even gas. . The main purpose is to detect the amount of water in oil in a transferred fluid. Water content determination is especially more important in crude oil or condensate transfer.

Getting a manual sample by opening a small valve on the pipe or getting sample from the storage tank is not a standard method and is not acceptable and getting sample using an auto sampler system is required.

Since the ration between volumes of sample to whole batch is a figure like 1 to 300 Billion so the accuracy of sampling is so critical. Auto sampler systems take 1ml samples from like frequently.

The design of auto samplers is based on ISO3171 or API MPMS 8.2 and they are designed in two types:

- In-Line Sampling
- Fast Loop Sampling

The basic items to be considered in an auto sampler system:

- Homogeneity of Pipe content at the point of sampling
- Getting a representative sample of whole batch
- Some methods to monitor a correct sample and detection of any problem or interrupt in sampling
- Laboratory Analyses