UGS 系列彩色石英玻璃液位计
UGS SERIES COLOR QUARTZ GLASS LIQUID LEVEL GAUGE

概述 INTRODUCTION

　　UGS系列彩色石英玻璃液位计是我公司采用高纯度石英管（99.99%SiO$_2$）制造的产品。仪表显示清晰，密封性能好，耐高温、高压，防粘稠，寿命长，冲洗、维护方便，广泛用于石油、化工、电力、冶金等行业中各种容器及锅炉的液位检测指示，特别适用于无色透明液体的测量指示（如水、液氨、轻油、液化气、丙烯等）。

　　UGS series color quartz glass liquid level gauge is made up of high pure quartz glass tube (99.99%SiO$_2$) by XINGSHEN. Clear in reading, reliable in sealing, long in operating life, easy to wash and maintain, it is also high temperature and high pressure resistant, and viscous resistant. The gauges are widely applied for various vessels and boilers in the field of petroleum, chemical, electric power and metallurgy etc. . Especially they are suitable for colorless and transparent liquids such as water, liquefied ammonia, light oil, liquefied gas and propylene.

结构原理 STRUCTURE PRINCIPLE

　　UGS系列彩色石英玻璃液位计通过自然光在液体中折射的光学原理，借助滤色红绿玻璃片，测量时，使液相显示绿色，气相显示红色，由于液、气相显示反差很大，所以指示鲜明清晰。

　　三色界位计利用两种液相介质的比重差，使特殊镀层的玻璃浮子浮在界位上。该镀层玻璃浮子十分醒目，同时，气红液绿显示液位。

　　三色光学界位计利用两种液体界面和液体与气相的折射光学原理使液位、界位清晰的显示。

　　UGS series color quartz glass liquid level gauge operates on optics principle that natural light is refracted in liquid. By red and green glass filtering flake liquid appears green while gas appears red at measurement. The indication is very clear due to the difference between liquid and gas.
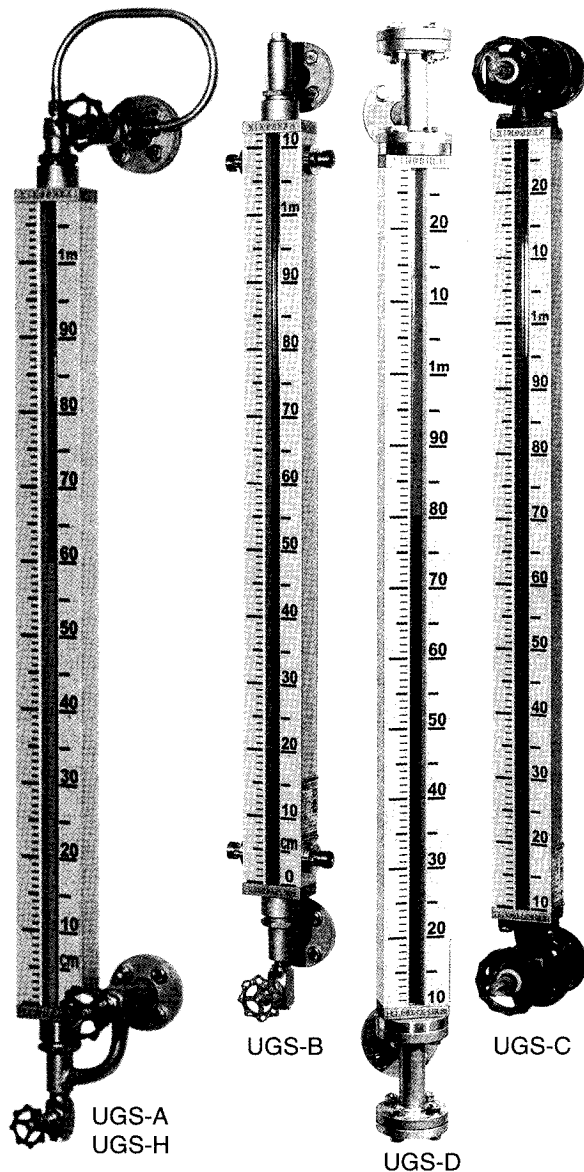
主要技术参数
MAIN TECHNICAL PARAMETERS

材质 material：碳钢carbon steel，
　　　　　　不锈钢1Cr18Ni9Ti，304SS，316L
　　透明石英管transparent quartz tube：

　　　　特制的99.99%SiO$_2$，（其变形点1077℃，软化点1730℃，抗压强度1170kgt/cm^2，膨胀系数5.5×10^{-7}，经特殊工艺处理后具有耐高温，高压和优良的机械特性）。Special 99.99%SiO$_2$ (its deformation temperature 1077℃, softening point 1730℃, compression strength 1170kgt/cm^2, expansion coefficient 5.5×10^{-7}. And dealt with special technics, it is also high temperature & high pressure resistant, at same time it is provided with excellent mechanical property.)

UGS-B

UGS-C

UGS-A
UGS-H

UGS-D

　　Three-color interface gauge is based on differential specific gravity of two liquids. Glass float with special plating cover floats on interface. The float is very striking, at same time, liquid level is indicated with red gas and green liquid.

显示高度与测量范围关系（无盲区型）
indicating height and measuring range:

显示范围 Indicating range	200	400	700	1000	1300	1600	1900
法兰中心距 Flange center space	300	500	800	1100	1400	1700	2000