

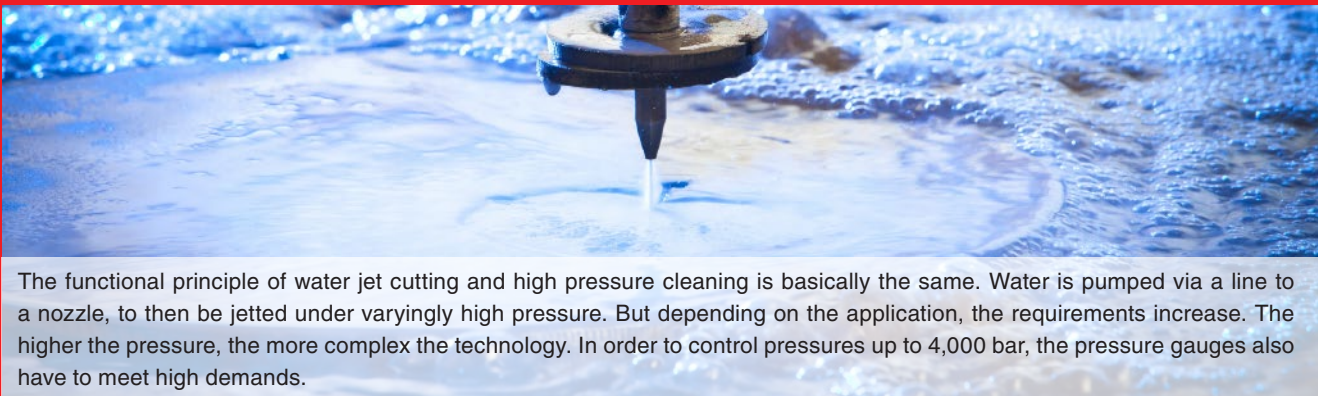
## Pressure Measurement in Engineering



### Application:

## Bourdon tube pressure gauges for water jet cutting and high pressure cleaning

for manufacturers and operators of water jet cutting systems, surface treatment companies



The functional principle of water jet cutting and high pressure cleaning is basically the same. Water is pumped via a line to a nozzle, to then be jetted under varyingly high pressure. But depending on the application, the requirements increase. The higher the pressure, the more complex the technology. In order to control pressures up to 4,000 bar, the pressure gauges also have to meet high demands.

### The problem:

When formed parts made of metal or plastic are cut with high pressure water jets, the pressure gauges have to withstand high and dynamic pressures (up to 4,000 bar).

That is why the pressure gauge has to comply with special safety regulations, in order to ensure the safety of the user in case of danger.

We have accepted this challenge and developed an instrument that meets these requirements.

### Our solution:

Our safety pressure gauge of the category S3 has a break-proof solid front between measuring system and dial. In addition, a blow-out back allows for full pressure relief in case of danger, in order to protect the user from injuries.

The instruments of this category are furthermore characterised by their high service life and reliability. The specialty about this pressure gauge are the high-quality processed parts. They are adapted for these process conditions so that you are provided with an instrument that meets your individual demands. An additional case filling serves the purpose of damping and reducing vibrations.

### up to 4,000 bar: RSChG 100 – 3 / RSChG 160 – 3

- ◆ Accuracy class 1
- ◆ Bayonet ring case, stainless steel
- ◆ Case filling glycerine
- ◆ Nominal case size 100, 160 mm (4", 6")
- ◆ Process connections:
  - ◆ M 16x1.5
  - ◆ 9/16-20 UNF
  - ◆ Male thread tube 9/16-18 UNF
- ◆ Window laminated safety glass
- ◆ S3 safety pressure gauge with break-proof solid front and blow-out back

