

Sampling Valve

Vacuum and pressure conditions

Key features

- Based on the “segment ball valve” principle meaning sanitary GMP design and therefore easy to clean
- Samples can be taken while vessel is pressurized up to 10 Bar
- Automatic depressurizing of the sample bottle for operator safety
- Very accurate sampling volumes can be taken, especially when compared to piston type sampling valves
- Main seal is exchangeable without having to disassemble the valve from the system - resulting in reduced down time
- Quick connect CIP system with integrated drain connection
- All seals are O-rings therefore low spare parts cost

Applications

- Sampling of powders, granulates and liquids from vessels and reactors without disturbing the process
- Adaptable to conical, horizontal and flat bottom mixers dryers and reactors
- Mainly for the chemical, pharmaceutical and food industry

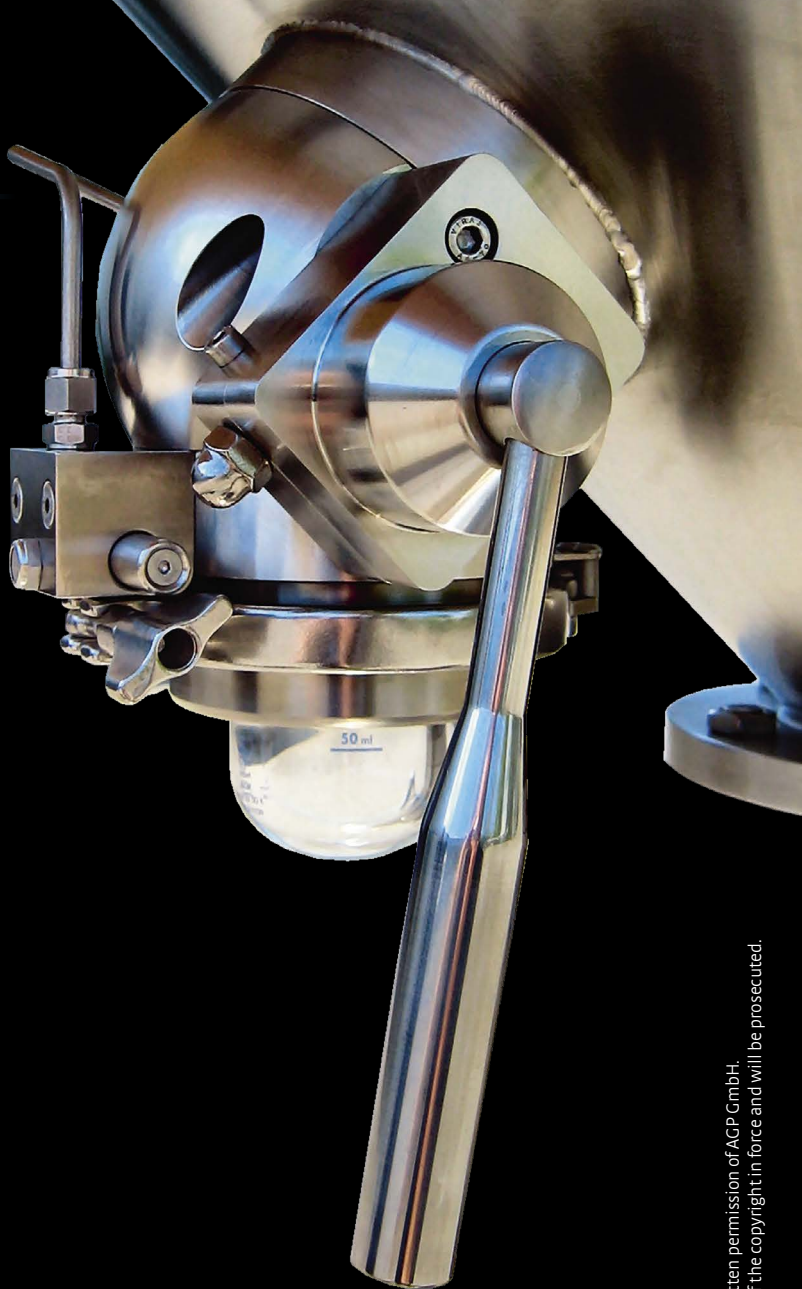
General Technical data

Bore:	Sample bore: variable between 0 and 50 mm
Flanges:	Special block flange
Pressure:	Full Vacuum and pressure up to 10 Bar
Temperature:	-20 /+280°C (depending on seal material)
Materials:	Standard 1.4404/316L
Seal:	O-ring seal e.g. EPDM, FKM (Viton) or FFKM perfluoroelastomer (all FDA approved)
Finish:	Product contacting parts Ra<0.8 µm, outside surface machined finish (others on request)



valve closed

valve partially opened



Manufacturing Standards

PED 97/23/EC, ATEX compliant, CE marked

Options

- Automated sampling
- Mechanically locked sampling bottle for enhanced safety on pressurized systems (“foolproof”)
- Spring return lever to prevent the valve from being opened unintentionally
- Proximity switches for closed detection and/or sampling bottle in place
- “Clean In Place” - Quick connect CIP system with integrated drain connection
- Monitoring and detection of main seal leakage
- Additional split-butterfly technology for taking contained product samples
- Mirror polished finish on wetted parts
- Special alloys (e.g. Duplex, Alloy C22 etc.)
- Fully customizable according to customer requests

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