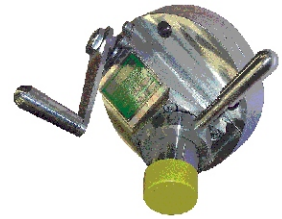


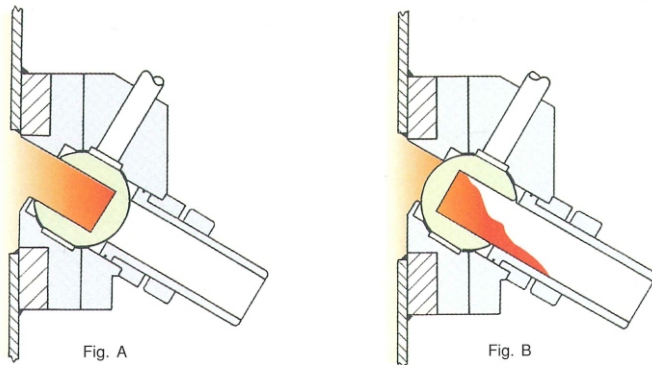
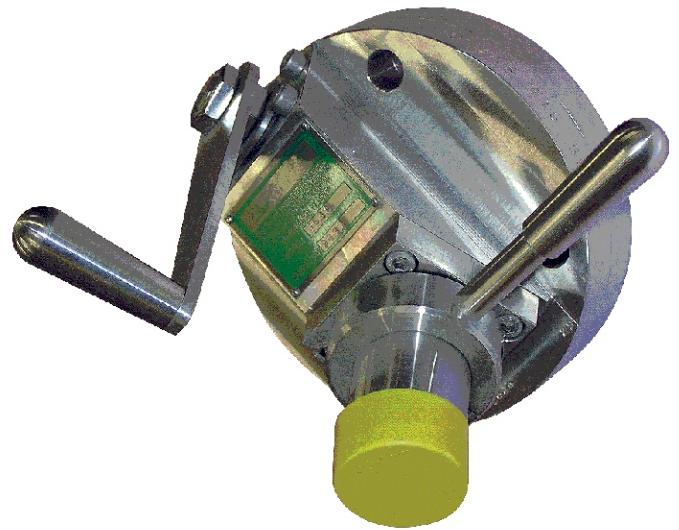
# Sampling Valves

for liquids and viscous media



# samValve BF (Series 1)

Safety and reliability in your processes have been our premise for the development of the samValve BF series 1. It is suitable for liquids and viscous media in tanks, containers and tubes. The high quality of sampling is achieved by a construction with very little dead storage. It can be mounted on tubes as well as on tanks. Furthermore, the samValve BF series 1 can be used under pressure up to 15bar and vacuum conditions and is absolutely leak free. By using different sealing materials the valve can be operated at temperatures up to 350°C. Due to the blind hole bowl it is without doubt the most secure sampling valve at all.



## Position 1

The valve is in the parking position as in Fig. B with tightened handle 2, so that the sealings are under pressure. In this position the blind hole kann be emptied and / or washed.

## Position 1

The second handle for releasing the sealings is used and the bowl is moved to the product by using the upper handle (Fig. A). Air which is in the bowl will escape and the bowl is filled. By moving back to pos. 1 (Fig. B), the content of the bowl will flow through the outlet into a suitable sample container. This operation has to be repeated until the required quantity is sampled.

After finishing, the lower handle has to be activated to set the sealings under pressure again.

## Materials and seals

- Stainless Steel (Standard)
- PTFE (Standard)
- Filled PTFE
- Kalrez
- Monel
- PEEK
- others on request

Every samValve BF series 1 is hydrostatically examined concerning tightness with up to 30 bar (at room temperature) before it is shipped. If requested, you will receive a certificate about this test. The materials used are completely traceable.

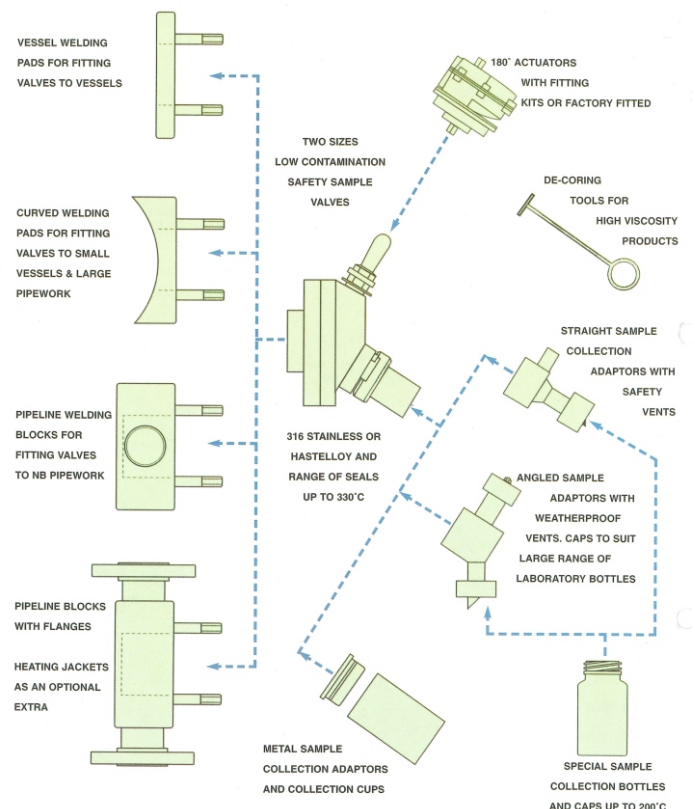
The samValve BF series 1 has two handles:

The upper handle controls the bowl. With every 180° turn, the content of the blind hole is brought from the product side to the emptying side.

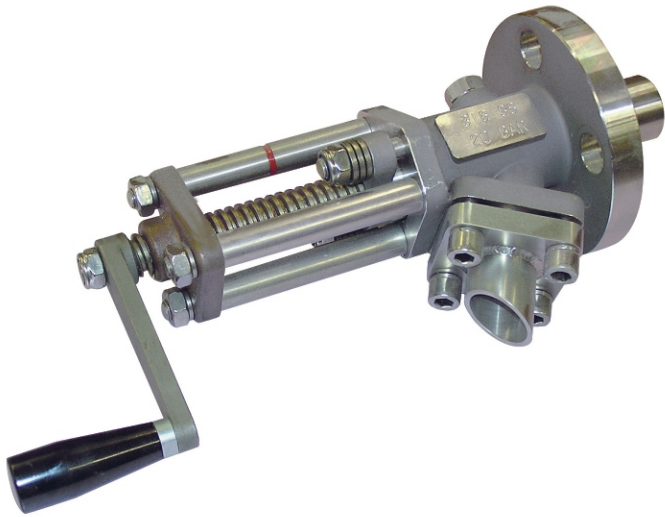
The lower handle allows the releasing of the sealings, to be able to move the upper handle easily. If the handle is activated, bowl and sealings will be tightened.

## Installation

The samValve BF series 1 can be mounted in different ways by means of the optional mounting flanges. Furthermore, different adapters are available for the outlet.



## samPiston BF (Series 5)



### Operation

The samPiston BF series 5 has a handwheel, by which the plug is drawn back. A red marking signals the opening of the outlet, so that the escape of liquid can be controlled easily. On the underside is the diagonal outlet, on which many different adapters and connections can be attached.

An extended plug (optional) can be used to peel off crustifications of products tending to polymerisation / crystallisation.

After the required sample volume has been taken, the crank handle is turned clockwise and the valve is closed. The last turning of the crank handle sets the special Chevron sealings under pressure, so that the valve is absolutely tight. Guaranteed\*!

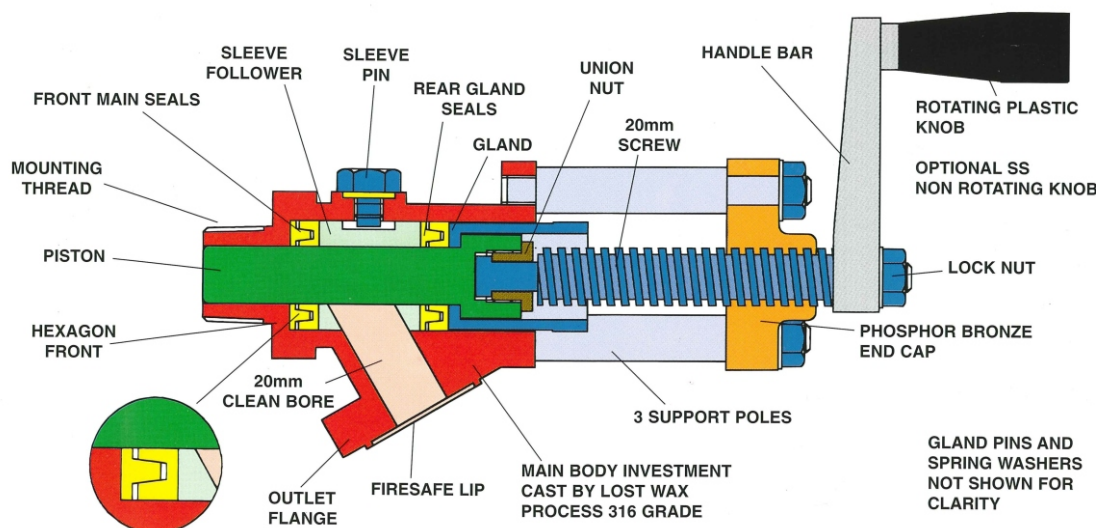
\*Correct use preconditioned

The samPiston BF series 5 sampling valve is an absolutely dead space free valve for flush wall mounting in tanks and tubes. It is a plug valve and suitable for liquids and viscous media in tanks, containers and tubes. It can be used at temperatures up to 200° C.

Due to the Chevron sealings the valve is low-maintenance and absolutely leak free.

### The advantages at a glance:

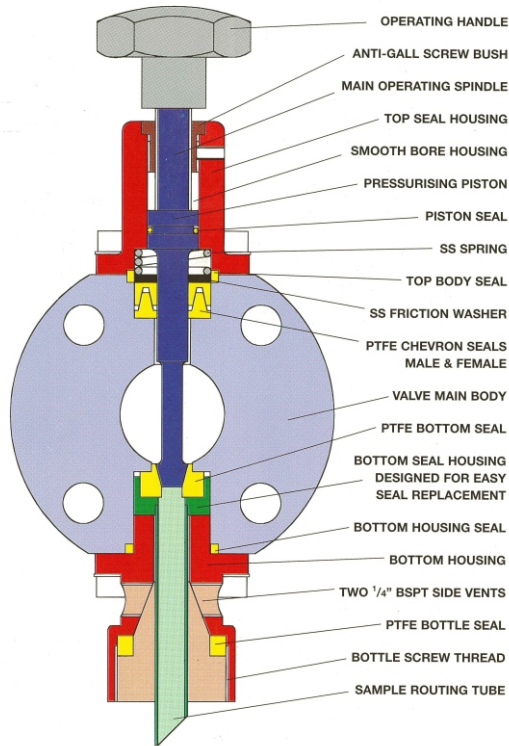
- **Dead space free construction**, always "fresh sample", low contamination.
- Pressure resistant and **leak free** thanks to the unique Chevron seals made from PTFE.
- Clean outlet: Smooth surfaces in the inner and outer valve and in the outlet **avoid contamination**.
- **Low maintenance**: The seals are hardly worn and can be changed without demounting the valve. No special tools required.
- All seals within the valve in contact with the process are virgin PTFE enabling the valve to be used for **temperatures up to 200°C**.
- **Large range of accessories** available to suit any size of vessel or pipework for fitting all sizes of valve.
- **Wide field of application**: All of the valves and in particular the 25mm **can be used as a bottom outlet valve** for small process vessels
- **Best price-performance ratio**



# samNeedle BF (Series 6)

The samNeedle BF series 6 sampling valve is a needle valve for waver styles installation. It is absolutely dead space free, poor in contamination and available in 4 sizes.

It is implanted in the tubes by flanges (vertically oder horizontally) and can be used at temperatures up to 200°C. Due to the PTFE sealings the valve is very robust, low-maintenance and absolutely leak-free. The samNeedle BF series 6 can also be manufactured in hastelloy or titanium on customer's request.



**The advantages at a glance:**

- **Dead space free construction:** The sample is taken directly out of the product stream.
- **Pressure resistant and leak free** thanks to the special seals made from PTFE that guarantee that the valve closes tightly. Working pressure up to 10 bar.
- **Clean outlet:** Smooth surfaces in the inner and outer valve and in the outlet **avoid contamination**.
- **Low maintenance:** The seals can be changed without demounting the valve.
- **Various applications:** 4 sizes available, materials: Stainless Steel, Hastelloy and Titanium.
- **For both horizontal or vertical pipelines.**

## Operation

The samNeedle BF series 6 has a handwheel which draws back the valve needle. That way the valve opening is deblocked and the sample can flow out. The outlet area is designed to assure that no remainders of the product can accumulate and then contaminate later samples (poor in contamination).

After sampling just turn back the handwheel and the valve is impervious - guaranteed\*!

\*Correct use preconditioned



The samNeedle BF series 6 sampling valve can be used on horizontal or vertical pipelines with the appropriate adaptors. Options: Handle, pneumatic actuation or lockable cabinet.

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