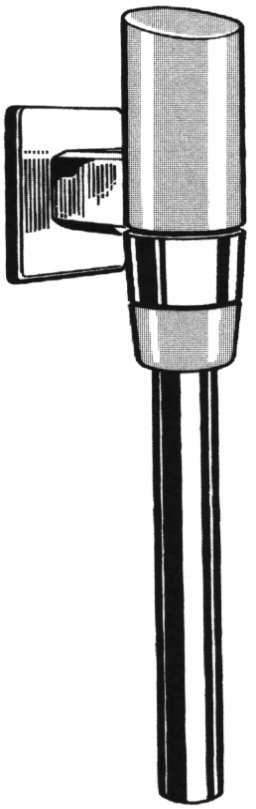
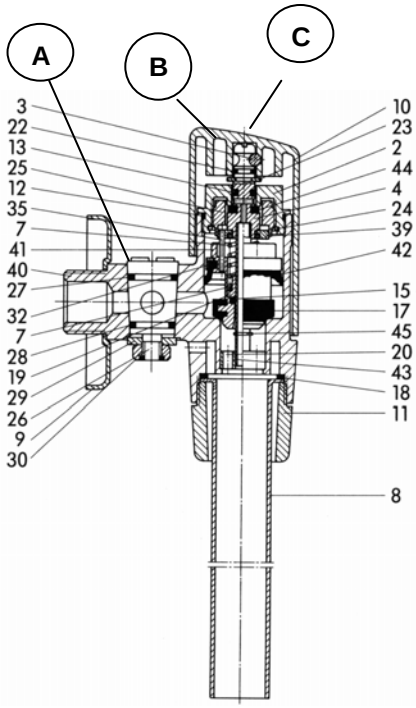
INSTALLATION –
and OPERATING INSTRUCTIONS



German Patent No. 3 427 336



WC Flusher	Order-no.	Approval Test Reg. No.	Connection Thread Size	Flow Pressure	Flush-Pipe diam.
NILplus 2003	2003 2003A with supply stop	DIN-DVGW 768	DN 15 ½“	1.0 – 4.0 bar	18 x 16,5 + internal or external urinal connector

NEW ! Now with self-cleaning jet-bore!

Installation

Maximum distance between top of urinal bowl and water mains connection point = 180 mm.

Purge the mains thoroughly before installing flusher.

Fit wall rosette, cover connection thread with hemp and screw flusher into mains connection point.

Fit flush-pipe between flusher and urinal bowl, making sure that the pipe is not under tension.

Adjustment of the flush-rate

Flush-Rate (A)

Factory pre-setting: 0.5 l/s at a flow-pressure of 2.5 bar.

In the case of **model 2003A** with integrated supply-stop, by turning the supply-stop valve screw by approx. ¼ of a turn, the flush-rate can be reduced by approx. 0.2 l/s.

Flush-Volume (B)

Factory pre-setting: approx. 3.0 l at a flow pressure of 2.5 bar and operating time of 1 second.

To increase the flush-volume turn the push rod 4 counter-clockwise.

To decrease the flush-volume turn the push rod 4 clockwise.

One complete turn counter-clockwise / clockwise is equivalent to approx. 1 liter more / less flush volume.

Proportioning of the flush-volume (C)

To decrease the flush-volume only press down lightly and for a short time the cover cap 10.

To increase the flush-volume press down for a longer time the cover cap 10.

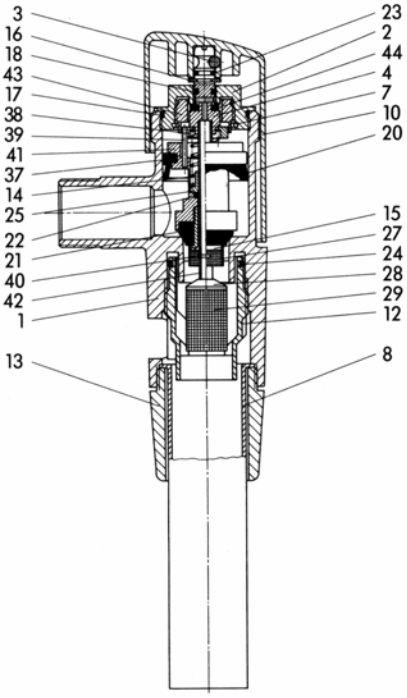
Operating Principle

The cover cap 10 is depressed. This causes the push rod 4 to be pushed against the piston spring 7, which opens the auxiliary valve 44. This in turn opens the areas above and inside the piston, which were previously sealed by the piston sleeve 42, piston seal ring 15 and the auxiliary valve seal 46.

The water above the main piston now flows through the space between the bore of the upper section 2 and the push rod 4 and then into the hollow push rod 4 and via the relief-pipe 43 in the direction of the non-pressurised outlet section of the flusher.

The main piston 6, which is now relieved of pressure, is now pushed up by the flow pressure against the force of the piston-spring 7 up to the stroke adjustment ring 25. The flushing process has now begun.

The cover cap 10 is now released and the auxiliary valve 44 once again closes the piston chamber. The chamber now fills with water, which enters via the ring-channel D that acts as a pressure balance-bore. The main piston is now pressed down in direction of the valve-seat. After this process has taken place, the pressure in the piston chamber gradually builds up to the prevailing mains pressure. The flushing process is now complete.



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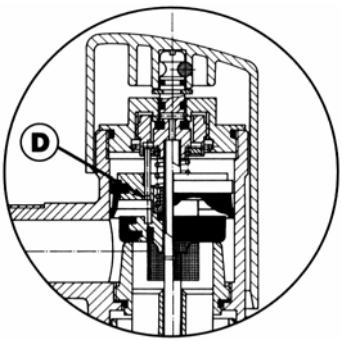

Thanks to this device, blocked jet-bores are a thing of the past. And how does this invention work?

A steel pin **(D)** cleans the pressure-balance bore of the flusher piston each time the flusher is used. This guarantees years of trouble-free functioning of the flusher.

Spare Parts

Article no.	Article Description
2003/52K	**Complete Head Section** (Upper section 2, push-rod 4, circlip 7, upper section seal 12, push-rod seal 13, piston seal 15, piston seat seal 17, piston guide 19, cover cap securing ring 22, securing circlip 23, piston pin 35, piston pin support ring 39, piston 41, piston seal 42, pressure relief pipe 43, auxiliary valve seal 4, circlip 45)
2003/11K	**Complete Outlet Fittings** (flush-pipe 8, oulet nut 11, connection seal 18)
2003/50	**Set of Spare Parts**
2003/51	**Set of Seals**
2003/10K	**Cover Cap and Outlet Nut** velour-chrome or coloured (please quote colour). Parts are non-returnable.

Servicing and Trouble Shooting

1. Flusher flows continuously

Clean the complete head section (comprising of upper-section 2 and piston 41) as follows:
Unscrew cover-cap screw 3 with allen-key 2.5 mm, then pull-off cover cap 10. Unscrew the upper section 2 with a 24 mm spanner, then take the complete head section including piston out of the flusher body. Remove circlip 45, then pull-off the piston 41. Remove securing-circlip 23 and then pull the push rod 4 out of the upper section 2. Now clean all parts thoroughly. Lubricate with grease or silicone all sealing surfaces and O-rings, in particular the piston-seal 15 and the push rod seal 13. Put together the parts again making sure that the position of the piston-pin 35 lines-up correctly with the piston-bore. Now screw the head section into the flusher body.

Even simpler – exchange the head section for new one (order-no. 2003/52K).

2. Although sufficient pressure, flusher does not supply enough water

Clean the water-jet guide ring 20. If necessary, check the mains pressure.

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