

INSTALLATION – and OPERATING INSTRUCTIONS



WC Flusher	Order-no.	Approval Test Reg. No.	Connection Thread Size	Flow Pressure	Flush-Pipe diam.
NILplus 2002	2002	DIN-DVGW 1032 P-IX 3597/II	DN 20 3/4"	1.2 – 4.0 bar	28 x 26 mm

NEW ! Now with self-cleaning jet-bore!

Installation

Riser pipe: According to the regulations for the calculation of cold-water pipes in plumbing systems as set out by the DVGW. Please also observe local regulations.

Purge the water mains before installation of flusher. Install with a 27 mm spanner. Please use a straight or cranked flush pipe with diam. 28 x 26 mm according to DIN 3267. We recommend fastening the flush pipe to the wall with a flush-pipe clamp.

Water-saving made easy

Adjustment of the flush-rate



Factory pre-setting: 1.0 l/s (1.3 l/s) at a flow-pressure of 2.5 bar (4.0 bar).

To increase the flush-rate or adjust to a lower flow-pressure:

By means of the allen-key provided or a screwdriver turn the throttle sleeve 12 by approx. 1/4 of a turn clockwise.

To reduce the flush-rate or adjust to a higher flow-pressure:

Turn the throttle sleeve 12 by approx. 1/4 of a turn counter-clockwise.

Adjustment of the flush-volume



Factory pre-setting: 6.0 – 6.5 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.

A half turn is equivalent to approx. 1 litre more flush-volume.

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

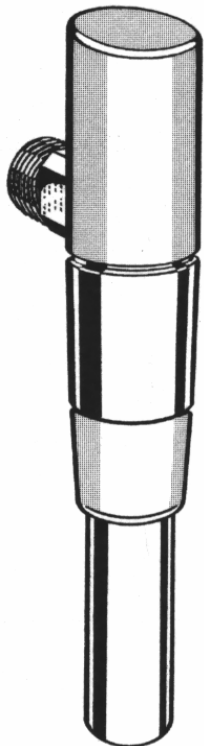
A half turn is equivalent to approx. 1 litre less flush-volume.

Proportioning of the flush-volume

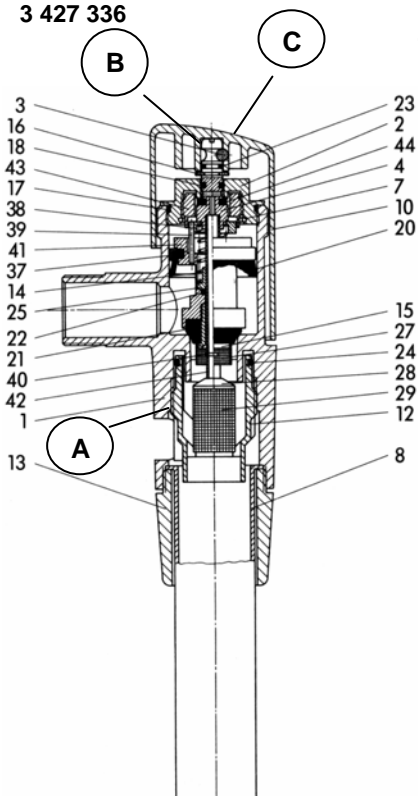


To decrease the flush-volume only press down lightly and for a short time the cover cap 10.

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



German Patent No. 3 427 336





Operating Principle

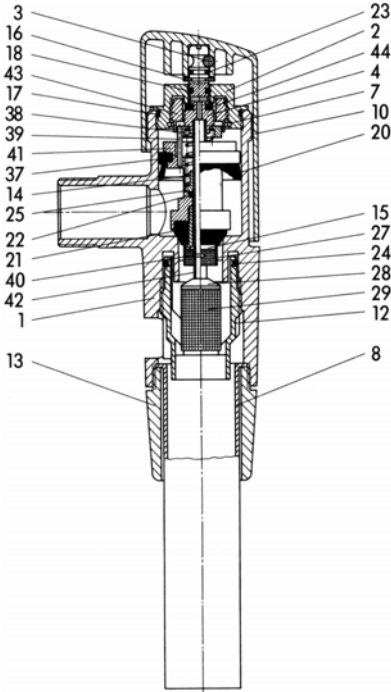
The cover cap 10 is depressed. This causes the push rod 4 to be pushed against the piston spring 14, which opens the auxiliary valve 46. This in turn opens the areas above and inside the piston, which were previously sealed by the piston sleeve 20, piston seal ring 22 and the auxiliary valve seal 46.

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 via horizontal bores into the hollow push rod 4 and then via relief-pipe 49 in the direction of the non-pressurised outlet section of the flusher.

The main piston 45, which is now relieved of pressure, is now pushed up by the flow pressure against the force of the piston-spring 14 up to the stroke adjustment ring 48. The flushing process has now begun.

The cover cap 10 is now released and the auxiliary valve once again closed 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 and seat-sleeve 11. 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.

Spare Parts



New ! Now with self-cleaning jet-bore!

Article no.	Article Description
2002/52K	Complete Head Section (Upper section 2, push-rod 4, circlip 7, piston-ring 14, piston-nipple 15, circlip 16, upper section seal 17, push-rod seal 18, piston seal 20, piston-seat seal 21, piston sealing ring 22, piston guide 25, piston nipple filter 27, piston seal support washer 37, piston pin support ring 38, circlip 36, piston pin 39, circlip 40, piston 41, pressure relief pipe 42, stroke adjustment ring 48, auxiliary valve seal 44)
2002/13K	Complete Outlet Fittings (outlet nut 13, outlet pipe 8)
2002/50	Set of Spare Parts
2002/51	Set of Seals
2002/10K	Cover Cap and Outlet Nut velour-chrome or coloured (please quote colour). Parts are non-returnable.



Servicing and Trouble Shooting

1. Flusher flows continuously

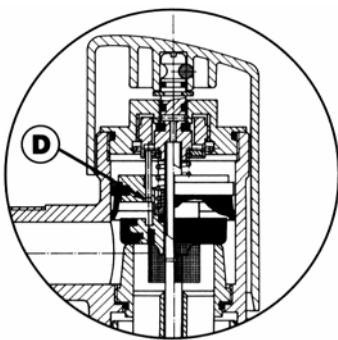
Clean the complete head section (comprising of upper-section 2 and piston 45) as follows:

Unscrew cover-cap screw 3 with allen-key 2.5 mm, then pull-off cover cap. Unscrew the upper section with a 24 mm spanner, then take the complete head section including piston out of the flusher body. Remove circlip 36, then pull-off the piston 45. Remove securing-circlip 30 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 22 and the push rod seal 18. Put together the parts again making sure that the position of the piston-pin 44 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. 2002/52K).

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

Clean the flow-volume throttle as follows: Remove throttle-sleeve 12 by turning downwards/clockwise, as far as possible, with an allen-key or screwdriver, then flush thoroughly for a number of times. After this return the throttle-sleeve to its original position.



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.