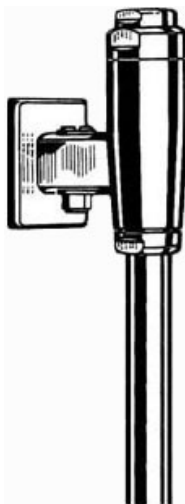


Installation and Service Manual

Urinal Flusher Model DK 78



Urinal Flusher	Order - No.	Thread Size	Flow pressure	Flush Pipe ø
DK78	450 - 455	½" DN15	1,2 – 4,0	18 x 16,5

1. Order nos. and scope of delivery

1.1 Description: Order-no. 450, urinal flusher DK78, consisting of:

- Urinal flusher ½" chrome-plated, with push-button operation
- Flush pipe chrome-plated, Ø 18 mm x 190 mm, straight
- Internal urinal connector, chrome-plated
- Wall rosette, chrome-plated, 55 mm x 48 mm
- Installation and service manual.

1.2 Description: Order-no. 455, urinal flusher DK78 with supply stop, consisting of:

- Urinal flusher ½" chrome-plated, with supply stop and push-button operation
- Flush pipe chrome-plated, Ø 18 mm x 190 mm, straight
- Internal urinal connector, chrome-plated
- Wall rosette, chrome-plated, 55 mm x 48 mm
- Installation and service manual.

2. Technical data.

NILplus- automatic flushing system

The automatic flush time and flush volume feature of the NIL-urinal flusher model DK78 guarantees a flush volume of $3 \pm 1,0$ l at a flow-pressure of 1,2 – 4,0 bar acc. to DIN EN 12541:2002 urinal flusher DN 15 class 4.

3. Application.

For use with all standard urinal bowls with top inlet.

- Flush pipes in different lengths and also cranked version can be found in our product catalogue (→ accessories for urinal flusher)..

4. Installation and putting into operation.

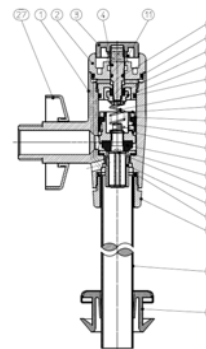
- Before and after the installation of the flusher, purge the supply pipe thoroughly in combination with the rectangular wall rosette.
- Assembly of flush pipe between flusher and urinal bowl without tension. Little tension could be balanced by the internal urinal connector.
- To avoid back pressure from the urinal bowl in the direction of the flusher, make sure that the flush pipe extends not too much into the urinal bowl.
- In general, it is highly recommended to install a dirt filter in the water mains to protect all taps of the domestic installation.

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Spare parts.

1K	Complete casing with seat sleeve (25)
2K	Complete headpiece
2	Headpiece
3	Push-button
4	Pressure rod
6	Auxiliary valve
7K	Complete piston
7	Piston
8	Piston ring
9	Piston nipple
11	Push-button spring
12	Lip seal retaining ring
13	Outlet nut
14	Flush pipe
16	Piston spring
18	O-ring (big) for upper part
19	Auxiliary valve seal
20	Piston seal
21	Piston sleeve
22	Connection seal
23	O-ring for pressure rod
24	O-ring (small) for upper part
25	Seat sleeve
26	Seat sleeve seal
27	Wall rosette

Advice: Work economical with genuine NIL - spare part boxes.

5. Maintenance and repair of malfunctions.

Before starting to work, close supply pipe or integrated supply stop, if applicable.

Problem	Cause	Repair
Flusher runs too long	a) Headpiece or single parts defective. b) Pressure balance bore of piston blocked.	Complete headpiece (2k) or replace defective parts, like the auxiliary valve seal (19), o-rings (18, 23, 24) Remove piston (7) disassemble piston nipple (9), take out piston seal (20) ; clean bore hole with jet nozzle pin.
Flusher runs too short	Piston sleeve damaged	Exchange piston sleeve (21) or complete piston (7k).
Flusher provides not enough water	Parts being in contact with water polluted	Disassemble internal parts of flusher and clean them. Purge flusher body thoroughly.

6. Spare parts.

Order - no.	Spare part
450/2K	Complete headpiece (Headpiece (2), push-button (3), pressure rod (4), auxiliary valve (5), push-button seal (22), o-ring (23)(24))
450/7K	Complete piston (piston (7), piston ring (8), piston nipple (9), lip seal retaining ring (12), piston seal (20), piston sleeve (21))
450/50	Set of spare parts (seals and springs)
450/51	Set of seals

The complete assortment of spare parts can be found in our spare parts list.

7. Important.

- Installation, putting into operation and maintenance only by professionals.
- Take care of legal rules and technical specifications of the local public water supply.
- Acc. to the DIN 1988, supply pipes have to be purged thoroughly before the installation of the flusher.
- Use soft and non aggressive detergents only. Rinse flusher after cleaning with detergents. High-pressure cleaner must not be used.
- All information subject to change.

8. Warranty.

Liability acc. to the Friedrich Gampper KG s terms of delivery. Use only genuine spare parts.

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