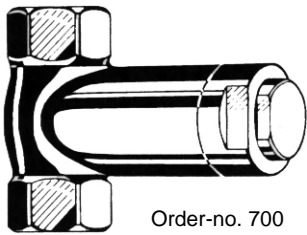
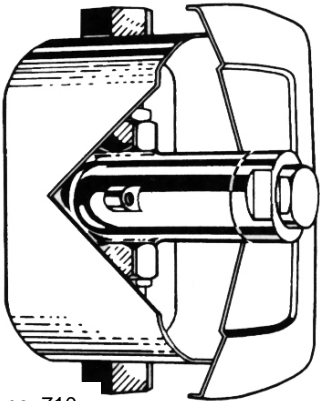




## Self-Closing straight-way valves for shower systems, with adjustable running time



Order-no. 700



Order-no. 710

| Article no. | Description  |
|-------------|--|
| 700 – 705   | For exposed installation, with various connecting versions                                       |
| 710         | As above, however for concealed installation   |
| 720         | Exposed installation; combination of pre-installed shower mixer for temperature regulation       |
| 730         | As no. 720, however for concealed installation   |
| 740         | Exposed installation; combination of pre-installed thermostatic mixer for temperature regulation |
| 750         | As no. 740, however for concealed installation   |

### Technical data:

| Thread size | Pressure range (bar) | Flow rate l/min. | Running time (sec.) | Installation height (m) |
|-------------|----------------------|------------------|---------------------|-------------------------|
| DN 15 • ½"  | 1,2 – 5,0            | 20 – 25          | 15 - 60             | 1,10 – 1,30             |

### I. Installation and start-up

Before installing the straight-way valves, rinse the pipes thoroughly. Additionally, a dirt filter should be installed in the water mains.

The valve should be installed at a height between 1,10 – 1,30 m. Take care of the arrow on the casing pointing to the shower head.

**Please note:** Using valves no. 700 – 705, 720 and 740, free exit of control water through borehole **C** downwards to the ground must be ensured. This is also valid for the concealed valves no. 710, 730 and 750, using a piece of pipe. When mounted, the piece of pipe has to be fixed thoroughly to the pipe nipple on the casing. Mounting the cover plate, avoid bending of the pipe.

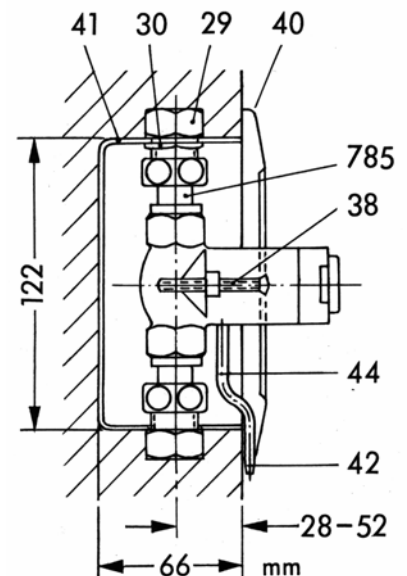
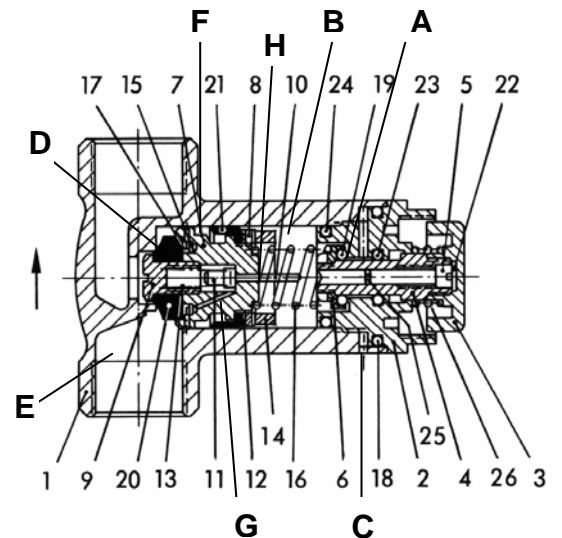
Advantageously, you use our special accessory parts for the installation of the valves, such as couplings, reduction pieces, etc.

For each row of valves, or even better for each single valve, we recommend our supply stop valve no. 782, ½" x ½".

Before installing the shower heads, actuate each valve so that all dirt particles are flushed out of the pipes.

**Please note:**

At the first few actuations, the valves operate longer than set to. This is normal and needs no adjustment of the settings.



## Spare parts

| Article | Description                     | Article | Description          |
|---------|---------------------------------|---------|----------------------|
| 700/2K  | Complete Head section           | 700/18  | O-ring               |
| 700/3   | Push-button                     | 700/19  | Auxiliary valve seal |
| 700/6K  | Auxiliary valve with seal       | 700/20  | Piston seal          |
| 700/7K  | Complete piston                 | 700/21  | Piston lip seal      |
| 700/13  | Piston pin spring               | 700/22  | Push-button seal     |
| 700/14  | Spacer ring                     | 700/23  | O-ring               |
| 700/16  | Piston spring                   | 700/24  | O-ring               |
| 700/17K | Filter retaining ring with disc | 700/26  | Push-button spring   |

These basic numbers are also valid for the concealed valve no. 710. Just adapt the order number accordingly (e.g. 710/2K – Complete head section).

### Special parts for the concealed valve:

| Article | Description            | Article | Description  |
|---------|------------------------|---------|--------------|
| 785     | Connection screwing ½" | 710/40  | Wall rosette |
| 710/41  | Concealed casing       |         |              |

### Advice:

Most efficient working by using NIL boxed assortments of spare parts.

There are also sets of spare parts available (no. 700/69 and 710/69) and seals (no. 700/70 and 710/70).

## III. Maintenance

To operate properly for many years, once in a while the following maintenance work is advised to be done:

1. Remove dirt and lime deposits from the release opening ( C).
2. Lubricate and clean all seals, such as piston lip seal, piston seal, o-rings, etc.
3. Clean the ring space (H), to be found between piston (7) and piston pin (10), moving the piston pin (10) a few times back and forth. Practically done after a longer time of non-operating.

## IV. Malfunction – Trouble shooting:

| Malfunction                             | Cause   | Trouble shooting   |
|---|---|--|
| Continuously operating valve            | Blocked bore holes (F) and (G), space ring (H) inside piston (7) or piston pin (10) by dirt or lime.<br>Rough dirt particles around the valve seat. | Clean bore holes (F) and (G) by moving the piston pin back and forth, until piston pin is moving easily. <i>Advice:</i> Replace complete piston. Clean inner casing. |
| Too short operating valve               | Defective seals inside head piece or piston, such as piston lip seal.   | Replace all seal. <i>Advice:</i> Replace complete piston and head piece.   |
| Head piece leaking when operating valve | Defective seals inside head piece.  | Replace seals. <i>Advice:</i> Replace head piece.  |

## II. Working principle and adjustment

**Operation:** Actuating the push-button (3), the auxiliary valve (6) lifts-off from the auxiliary valve seat (A), the piston chamber (B) is being emptied through the release opening (C).

The valve piston (7) lifts-off against the force of the piston spring and releases the main valve seat (D).

### The valve is operating.

Releasing the push-button again, the auxiliary valve (6) returns to its starting position, using the force of the piston spring (16), and closes the pistons chamber (B), which is filled again with pressured-water of the mains (E), using a) the rough cross drillings of the piston, b) the fine filter (15) at the piston bottom c) the diagonal drill (G) of the piston (7), d) the ring space (H) between piston (7) and piston pin (10).

Once the piston (7) has reached the main valve seat (D), the water pressure is being build-up within the piston chamber (B) and provides together with the piston spring (16) the required tightness.

### The valve stopped operating.

**Adjustment:** The two major parameters for the running time of the valves are the unchangeable ring space (H) and the adjustable stroke of the valve piston (7), using the stroke adjustment pin (5).

Ex-factory, the valves are set to the max. running time of 50 – 60 sec.

If you need a shorter running time, screw-in the stroke adjustment pin (5), found behind the push-button (3), using a small screw driver. The stroke is reduced hereby.