

## Optibal TW

### Ball Valves for Potable Water



Ball valve for potable water installations with reduced flow in accordance with DIN EN 13828 and without dead space. The ball is always surrounded by water.

Body made of low-lead brass, ball chrome-plated, maintenance-free spindle sealing by double O-ring made of EPDM. With extended plastic handle and G 1/4 connection for drain valve or water sampling valve. Available with internal thread in accordance with EN 10226-1 or flat sealing external thread in accordance with DIN ISO 228 on both sides.

The ball valve is opened/closed with a 90° turn of the handle. The handle shows the respective switching position.

#### Features

- + Reduced flow in accordance with DIN EN 13828
- + Ball always surrounded by water
- + Without dead space
- + G 1/4 connection for drain valve and water sampling valves

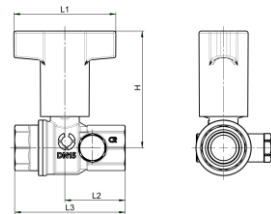
#### Technical Data

|                                |                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Nominal sizes</b>           | DN 15...DN 50                                                                                             |
| <b>Variants</b>                | With internal thread in accordance with EN 10226-1<br>With external thread in accordance with DIN ISO 228 |
| <b>Operating temperature</b>   | 0...90 °C                                                                                                 |
| <b>Max. operating pressure</b> | PN 10                                                                                                     |
| <b>Kvs values</b>              | DN 15: 23.0<br>DN 20: 36.0<br>DN 25: 62.0<br>DN 32: 79.0<br>DN 40: 124.0<br>DN 50: 178.0                  |

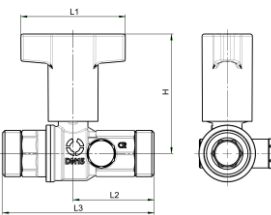
# Product Details

## Dimensions

### Optibal TW with internal thread

|  | Nominal size | Connection | L1 [mm] | L2 [mm] | L3 [mm] | H [mm] |
|-----------------------------------------------------------------------------------|--------------|------------|---------|---------|---------|--------|
|                                                                                   | DN 15        | Rp ½       | 60      | 35.5    | 65      | 68.4   |
|                                                                                   | DN 20        | Rp ¾       | 80      | 37.5    | 69.5    | 73.3   |
|                                                                                   | DN 25        | Rp 1       | 80      | 46      | 86.5    | 77.3   |
|                                                                                   | DN 32        | Rp 1 ¼     | 119.5   | 52      | 98.5    | 115.4  |
|                                                                                   | DN 40        | Rp 1 ½     | 119.5   | 56.5    | 107.4   | 121.4  |
|                                                                                   | DN 50        | Rp 2       | 119.5   | 65.5    | 126     | 128.4  |

### Optibal TW with flat sealing external thread

|  | Nominal size | Connection | L1 [mm] | L2 [mm] | L3 [mm] | H [mm] |
|------------------------------------------------------------------------------------|--------------|------------|---------|---------|---------|--------|
|                                                                                    | DN 15        | G ¾        | 60      | 46.5    | 87      | 68.4   |
|                                                                                    | DN 20        | G 1        | 80      | 49.5    | 93.5    | 73.3   |
|                                                                                    | DN 25        | G 1 ¼      | 80      | 60.5    | 115.5   | 77.3   |
|                                                                                    | DN 32        | G 1 ½      | 119.5   | 68      | 130.5   | 115.4  |

# Selection

## Item Numbers

### Optibal TW with internal thread

|  | Nominal size | Connection | kvs   | Item no. |
|-----------------------------------------------------------------------------------|--------------|------------|-------|----------|
|                                                                                   | DN 15        | Rp 1/2     | 23.0  | 1078804  |
|                                                                                   | DN 20        | Rp 3/4     | 36.0  | 1078806  |
|                                                                                   | DN 25        | Rp 1       | 62.0  | 1078808  |
|                                                                                   | DN 32        | Rp 1 1/4   | 79.0  | 1078810  |
|                                                                                   | DN 40        | Rp 1 1/2   | 124.0 | 1078812  |
|                                                                                   | DN 50        | Rp 2       | 178.0 | 1078816  |

### Optibal TW with flat sealing external thread

|  | Nominal size | Connection | kvs  | Item no. |
|------------------------------------------------------------------------------------|--------------|------------|------|----------|
|                                                                                    | DN 15        | G 3/4      | 23,0 | 1078904  |
|                                                                                    | DN 20        | G 1        | 36,0 | 1078906  |
|                                                                                    | DN 25        | G 1 1/4    | 62,0 | 1078908  |
|                                                                                    | DN 32        | G 1 1/2    | 79,0 | 1078910  |

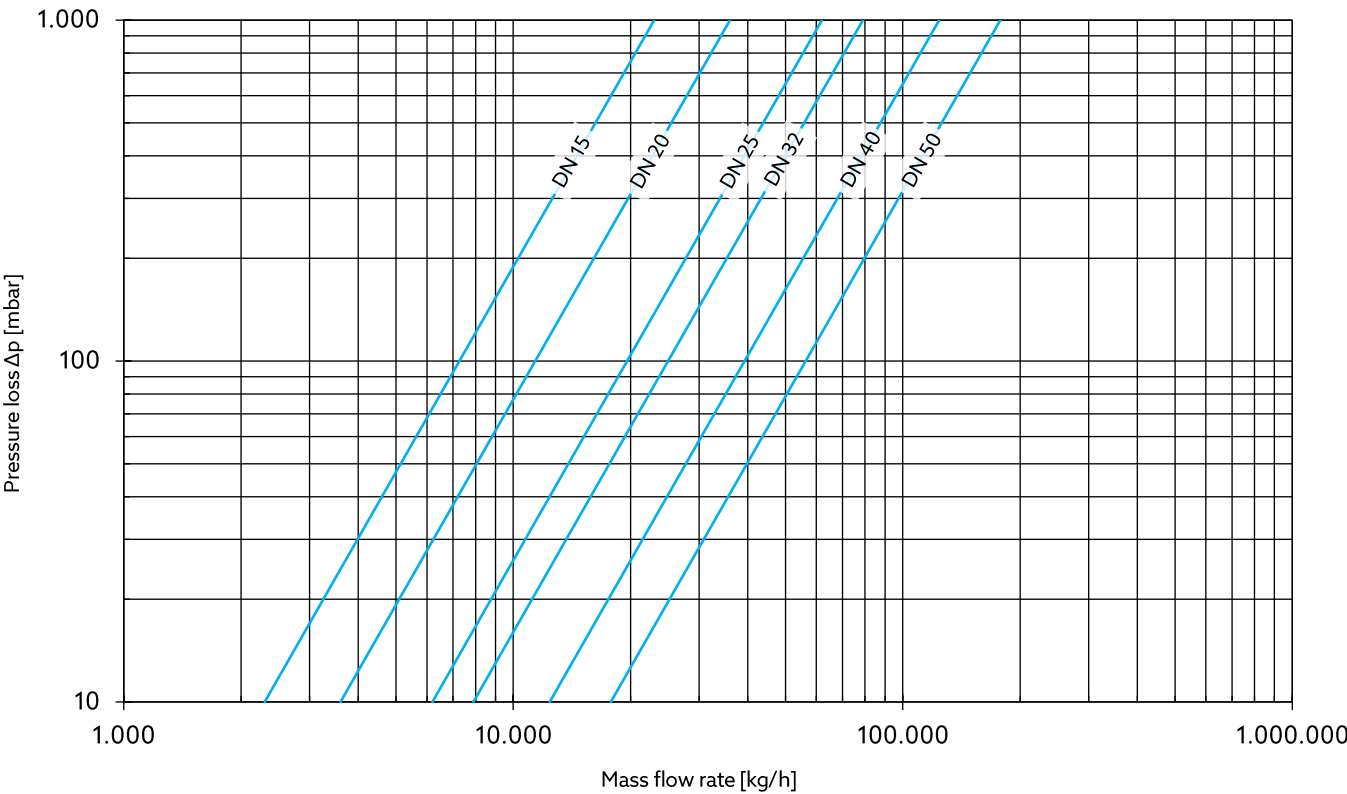
## Accessories

Selected accessories for Optibal TW. For a complete overview, see product catalogue.

| Description                                               | Item no. |
|-----------------------------------------------------------|----------|
| Thermal insulation shell for Optibal TW DN 15             | 4208881  |
| Thermal insulation shell for Optibal TW DN 20             | 4208882  |
| Thermal insulation shell for Optibal TW DN 25             | 4208883  |
| Thermal insulation shell for Optibal TW DN 32             | 4208884  |
| Thermal insulation shell for Optibal TW DN 40             | 4208885  |
| Thermal insulation shell for Optibal TW DN 50             | 4208886  |
| Thermometer conversion set for Optibal TW DN 15           | 1077181  |
| Thermometer conversion set for Optibal TW DN 20 and DN 25 | 1077182  |
| Thermometer conversion set for Optibal TW DN 32 to DN 50  | 1077183  |
| Aquastrom P water sampling valve DN 8, G 1/4 ET           | 4209102  |
| Drain valve for hose connection DN 8, G 1/4 ET            | 4205593  |
| Drain valve DN 8, G 1/4 ET                                | 4209602  |
| Drain ball valve DN 8, G 1/4 ET                           | 4200191  |

# Sizing

## Flow chart



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EN-05012-10788-DB-V2439 – September 2024