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# Datasheet ERHARD ball check valve



# ERHARD ball check valve

## The check valve according to the ball check principle

In the case of the ERHARD ball check valve, the closing ball being in open position is pressed out from the flow cross-sectional area by the medium. This opens the valve. Ball check valves are therefore especially suitable for wastewaters posing a high risk of clogging. When in open position, the ERHARD ball check valve has a low flow resistance. It does not have any mechanically moved parts making it extremely maintenance friendly. The ERHARD ball check valve is also insensitive to dirt and therefore suitable especially for use in wastewater (sewage plant).

The body is made from lamellar graphite cast iron EN-JL1040, the cover from spheroidal graphite cast iron EN-JS1030. The sealing ball consists of an NBR rubberised steel ball. The internal and external EKB fusion bonded epoxy coating guarantees a permanent corrosion protection.



**Operating instruction**  
BA64E000\_KRV\_65-200

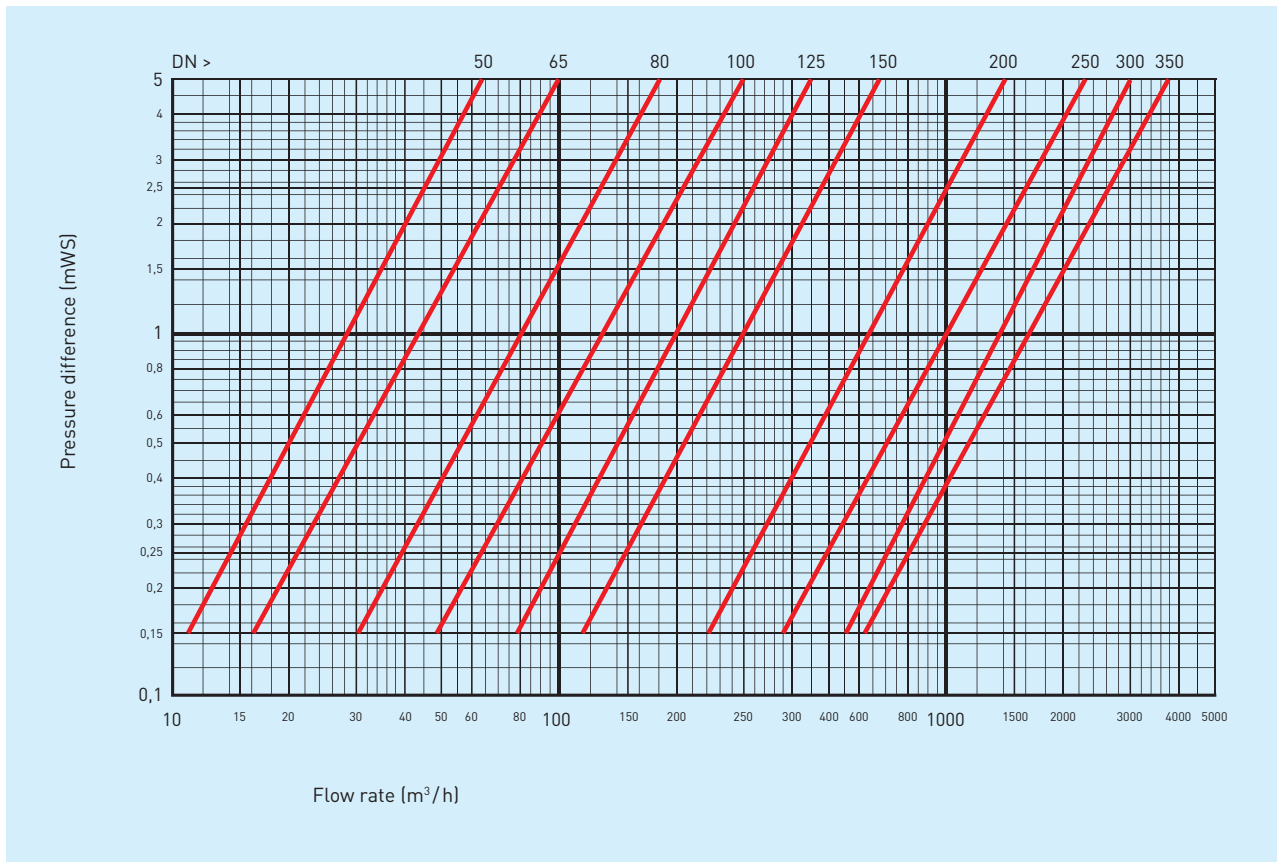
## Dimensions

| Nominal size<br>DN | face-to-face-<br>dim. L mm | Height H<br>mm | Flange- $\phi$<br>D mm | d mm | Weight<br>approx. kg |
|--------------------|----------------------------|----------------|------------------------|------|----------------------|
| 50                 | 200                        | 113            | 165                    | 102  | 8                    |
| 65                 | 240                        | 126            | 185                    | 122  | 12                   |
| 80                 | 260                        | 162            | 200                    | 138  | 17                   |
| 100                | 300                        | 194            | 220                    | 158  | 23                   |
| 125                | 350                        | 215            | 250                    | 188  | 37                   |
| 150                | 400                        | 260            | 285                    | 212  | 53                   |
| 200                | 500                        | 320            | 340                    | 268  | 99                   |
| 250                | 600                        | 365            | 395                    | 320  | 136                  |
| 300                | 700                        | 428            | 445                    | 370  | 220                  |
| 350                | 800                        | 537            | 565                    | 480  | 400                  |
| 400                | 900                        | 650            | 670                    | 582  | -                    |

for flow velocities up to 3 m/s

Standard with no swimming ball for installation in a vertical pipe, flow from bottom to top and mounted in a horizontal pipe. For installation in a vertical pipe to flow from the top to the bottom or installed in a horizontal pipe with the ball-bearing down (case of space problems) a swimming ball is available.

# Flow rate



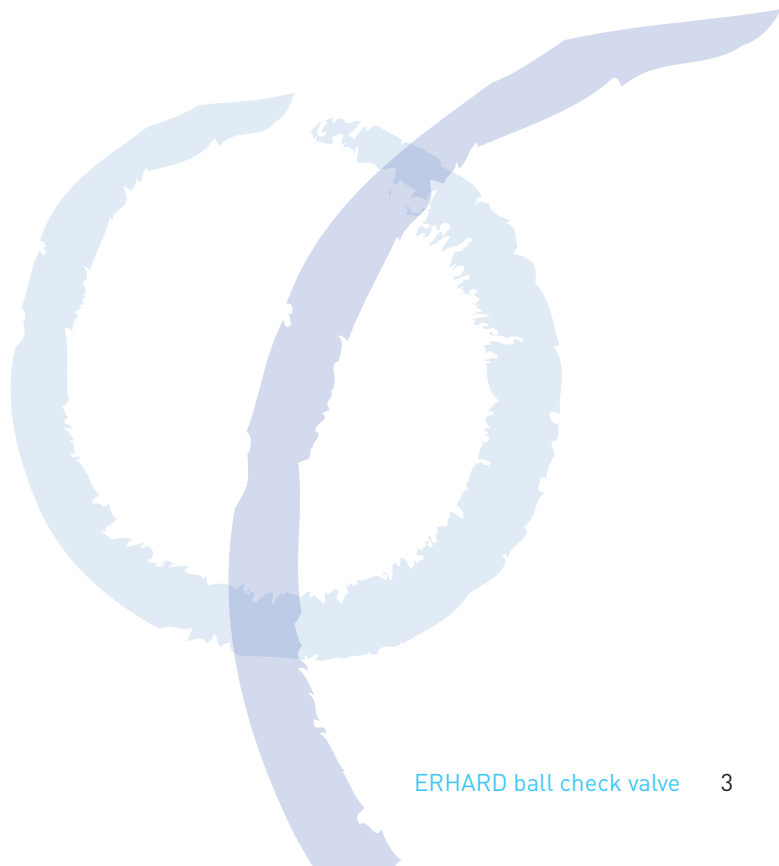
Fully opening at approx. 2 m/s flow rate

Required back pressure:

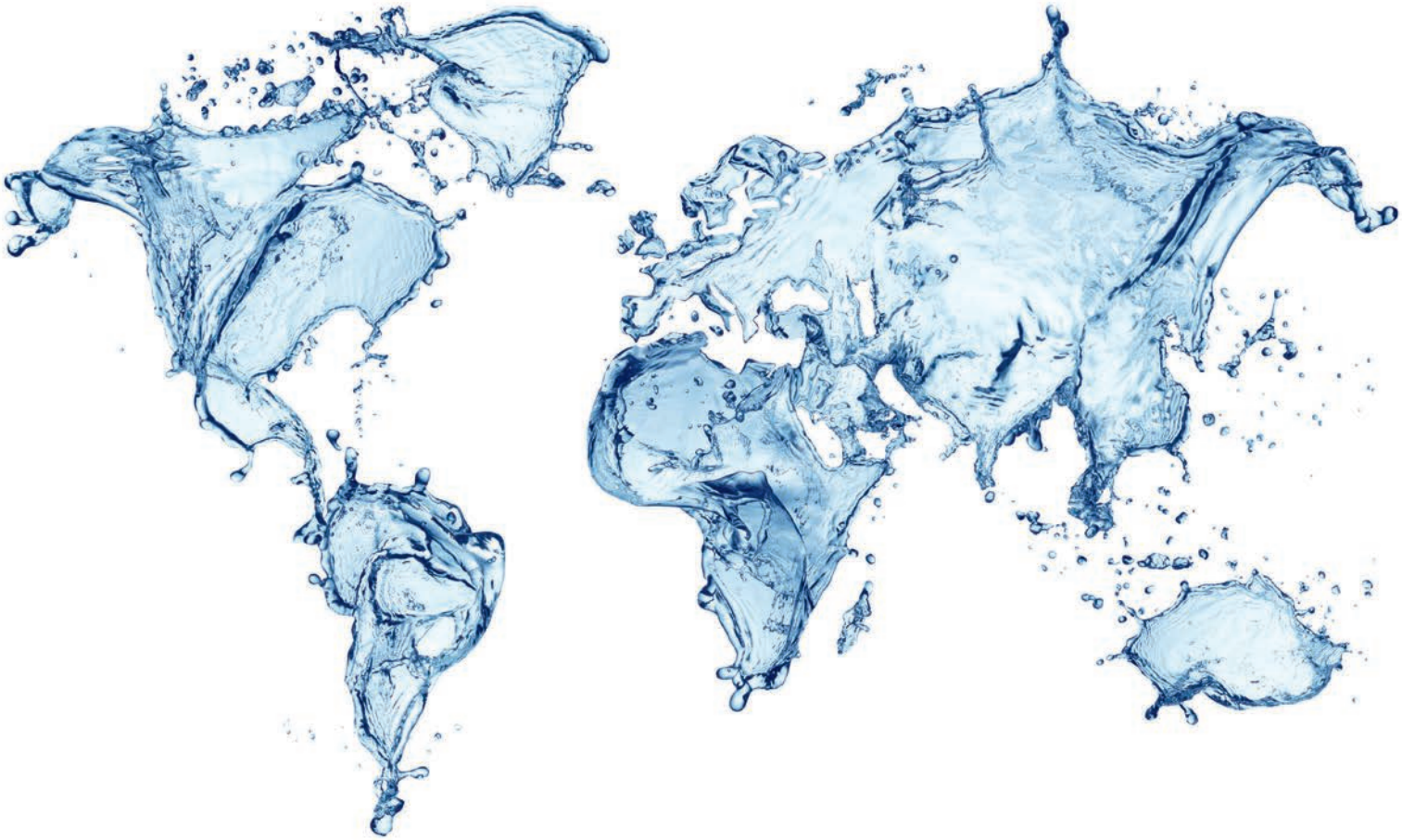
- for vertical mounting 0,1 bar
- for horizontal mounting 0,3 bar

## Headloss when installed with vertical upward flow

| Nominal size DN | Headloss bar |
|-----------------|--------------|
| 50              | 0,010        |
| 65              | 0,014        |
| 80              | 0,016        |
| 100             | 0,021        |
| 125             | 0,026        |
| 150             | 0,030        |
| 200             | 0,039        |
| 250             | 0,048        |
| 300             | 0,052        |
| 350             | 0,062        |
| 400             | 0,073        |



# Your Choice in Waterflow Control



TALIS is the undisputed Number One for water transport and water flow control. TALIS has the best solutions available in the fields of water and energy management as well as for industrial and communal applications. We have numerous products for comprehensive solutions for the whole water cycle – from hydrants, butterfly valves and knife gate valves through to needle valves. Our experience, innovative technology, global expertise and individual consultation processes form the basis for developing long-term solutions for the efficient treatment of the vitally important resource “water”.



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